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VOLUME XIII,

NEW YORK, JULY 18, 1923

No. 3

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In This Issue { **Vanilla Bean Crop in Vera Cruz**
June Dye Imports

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DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME XIII, NUMBER 3

[JULY 18, 1923]

WHY KILL THE DYE INDUSTRY?

While the Government is suing the Chemical Foundation to recover the German patents sold by the Wilson Administration, the Tariff Commission points out the remarkable growth of the dye industry since 1914 and the sincerity, persistency and courage of American manufacturers in developing the colors necessary for the textile, leather, rubber, paper and other consuming industries which before the war were dependent upon Germany for supplies. The wisdom and foresight shown by the Commission which recommended the sale of the patents is demonstrated by the report, and the adequacy of the price paid is upheld by the testimony of chemists who are telling the Court at Wilmington about the large sums expended in research work and the difficulties overcome owing to the efforts of the Germans to mislead investigators in the patents filed at Washington.

No sane person questions the right of the United States Government to seize these patents for the manufacture of chemicals which were made for use in explosives, largely, or turned against us during the war in the form of poisonous gases. The monopoly which Germany held enabled her to withhold supplies of dyes from the rest of the world and might have resulted in closing down the American textile industry, thereby throwing hundreds of thousands of workers out of employment. In estimating the value of the German patents the fact that American manufacturers had to build research plants and devote years of investigation to developing the processes must not be overlooked. An unworkable patent is of absolutely no value whatever. One Chicago company spent more than \$100,000 evolving a process for the production of a remedy for gout and rheumatism.

The report of the Tariff Commission draws particular attention to the fact that the competition which Americans are giving the Germans in the dye and medicinal chemical field has reduced the prices of colors and pharmaceuticals to consumers in this country. In 1917 the average price of dyes was \$1.26 per pound. In 1922 the average price had fallen to 60 cents per pound, less than one half. The quality of American dyes is constantly improving, and the less used dyes are now being made here. The Commission says that American manufacturers are now making 93.5 per cent of the dyes used in the United States, and that the production of vat and alizarin dyes is constantly increasing.

Should the Government succeed in its attempt to recover the German patents the American dye and

chemical industries will be subject to interminable suits by German manufacturers to prevent the production of products here which they will claim are being made under the patents which they filed at Washington before the war. Why kill the industry, discourage investment, and leave the United States at the mercy of foreign foes, without proper protection in time of war, and inadequately protected in time of peace against a German monopoly in chemicals for medicinal use? Who can doubt that the industry would be dealt its death blow after reading the testimony of Thomas W. Miller, Alien Property Custodian, who said: "If this Administration is in power the patents will go back to the German owners," pre-supposing that the Government wins the present suit.

WHAT IS IT?

A controversy has arisen at San Francisco between importers and customs officials over the duty on nigari, used in making tufuo, a product of the soy bean. Nigari is an amber-colored liquid made from sea salt and a full description of the method of obtaining it was given in the hearing held before the appraisers. A shallow pool of salt water is allowed to evaporate and the salt crust is hung up and nigari drips off in liquid form. It is considered a fine flavoring for food. Importers contend that it is a mineral and should be admitted free of duty, while the government contends that it is a non-manufactured product and should pay a duty of 10 per cent. The case has been referred to Washington for consideration.

When is a mineral not a mineral? The Government answer is: "When it drips." This tariff conundrum may disrupt the entire scientific world as well as the Customs Service. The importers quote Paragraph 1618, Tariff Act of 1922, which says:

"Minerals, crude, or not advanced in value or condition by refining or grinding, or by other process of manufacture, not specially provided for, free."

The Government officials, not being able to prove that the process of "dripping" is a process of manufacture, or that the product had been advanced in value by refining or grinding, avoided the issue by claiming that nigari is not a mineral, but a non-manufactured product and therefore dutiable at 10 per cent ad valorem. By this decision nigari simply becomes a "what-is-it," and the importers propose to join issue with the Government and prove that it is a mineral, even should

it become necessary to call the leading scientists of the country to support their claim. It is not for the layman to pass upon such a momentous question. The business man may ask, however, whether the Customs officials have not sought to classify this and other products so as to obtain a revenue, although it is not probable that the proposed duty on nigari would yield very large returns. In such cases the issue is not the amount of money involved, but the principle and the question of justice to the business interests of the country.

MUST PROTECT SECRET FORMULAE

Government attorneys made the extraordinary claim at the trial of the Chemical Foundation suit at Wilmington that if a witness testified that the process which his company used was different from the German patent, the Court was "entitled to know what those differences are." In other words a manufacturer who has spent thousands of dollars in perfecting an unworkable patent, must disclose his secret formula. Judge Morris ruled that while in case of appeal the witness might be required to make a statement to the Court in the presence of chief counsel on both sides which would be sent to the higher court under seal, no disclosure could be made by counsel personally or in briefs filed with the higher court.

A just judge and a righteous decision. But suppose the Government contention was countenanced in a Federal court. There could be only one result—the ruin of the manufacturer. After expending a fortune in research work, his secret would become known to the world and his business ruthlessly taken from him. Even the Government would suffer by the reaction against the exposure of trade secrets, and the effort to force a confidential worker to betray his employer. The administration of justice would fall into disrepute, and it would be difficult to obtain evidence in suits involving property rights.

TECHNICAL SERVICE NECESSARY

When chemical salesmen who are writing essays in a prize contest take the view that technical knowledge gives the traveling man a great advantage over competitors not familiar with the uses and application of products, it is safe to assume that their opinions are based on experience. A perusal of the papers submitted in the contest just closed by DRUG AND CHEMICAL MARKETS, and published in the issue of July 11, will convince the most skeptical that the salesman who can tell how the product which he offers should be applied, and why it is better adapted to the customer's needs than some other, is likely to get the business and to hold it, provided the quality and price are right.

Personal magnetism and dash, a gift of "gab," and liberal entertainment of a buyer by the sales-

man may bring one-time orders, but business that is worth having, that means a satisfied customer, and establishes cordial relations with the manufacturer himself, can be obtained only by giving technical service.

Divi Divi is being utilized by tanners in the United States in increasing quantities, since its successful use during the war. The difficulties encountered in transporting the pods of the tree, and the danger of fermentation are being overcome. It appeals to the tanning industry because the supply is almost inexhaustible and because of its cheapness. The contents of the pods is very astringent and runs as high as 45 per cent tannin. Owing to high freight charges, extract works will probably be established at the sources of supply in Venezuela, Colombia, Dominican Republic, Haiti, and Dutch West Indies.

The use of cattle sinews in the manufacture of glue in North China is threatened by the demand for sinews in South China for food. "Please pass the ligaments," is a familiar request when the head of the house sits down to dinner, says a report to the Department of Commerce. Thousands of tons are consumed annually, and the demand exceeds the domestic production. Hongkong importers have sent a call to the United States for more ligaments. As the people demand juicy cattle sinews and refuse to eat glue, it seems probable that the industry will lose its supply of raw material.

"Clothing trade would be hit by spongers' tie-up," says a headline in a New York textile paper. It might be a good thing if the spongers in other trades would strike and never return.

Many Men: Many Minds

With a surplus of \$300,000,000 in the Treasury it must be a tough proposition for Congress to stay adjourned until December.—Financial America.

The census figures of the capital of the manufacturing industries of the country show an advance from \$533,000,000 in 1850 to \$44,579,000,000 in 1919. The stated capitalization of 1919 is 85 times as much as that of 1850, while the factory output of 1919 was 65 times as much as that of 1850.—National City Bank of New York.

Louis G. Kaufman, president Chatham & Phenix National Bank, says: "There are doubtless many grave questions on the business horizon which will bear watching on the part of bankers and executives responsible for the prosperity of this country. But in the main there is nothing to cause business interests any undue anxiety. It is safe to say that all danger of money stringency has been permanently removed from possibilities threatening business here. There was never a time in the history of the country when manufacturers, corporations and merchants were in such sound financial position. A conservatively enterprising spirit prevails in the conduct of the fundamental business of the country."

The Vanilla Bean Crop in Vera Cruz

*About Same Yield for 1923-24 Expected as 1922—
Predict 150,000-Pound Crop Yearly After 1925*

By H. C. COLLINS, Vera Cruz, Mexico
Staff Correspondent, Drug & Chemical Markets

THE flowering of the vanilla beans commenced during the latter part of April, and continued well into June. There were plenty of flowers this year and to date the flowering has been very satisfactory, with indications that the 1923 and 1924 crop will be as large as the past year. The report that developments in the vanilla districts by the oil companies have had a direct bearing on the short crop of vanilla for the past two or three years is a mistake. Leases have been given the oil companies by the land owners in practically all of the vanilla districts in the State of Vera Cruz, but no

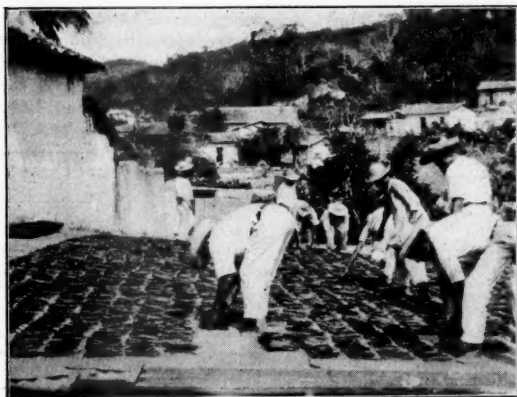
a good crop it is necessary to have favorable weather during the fructification. The quality of the beans depends on the curing, if the curers can expose the beans to the sun almost daily, the quality is reasonably sure to be good.

While there has been a great deal of new planting, it has not been at a rate to offset the old plantations that have died out or have been destroyed. The new

plantations are small compared to the old ones and will not bear until 1925, before that time the crop will continue to be small as compared to normal times. With all the new planting, the normal crop for many years to come in this vanilla district will be about 150,000 pound.

Vanilla is one of the best money making crops in Mexico. It can be produced in all the States in the hot country, but at present most of it is grown in the State of Vera Cruz. The demand for vanilla beans has been steadily increasing year by year and the production has been decreasing for the past four years.

The vanilla bean in its primitive state was a vine only and bore no fruit, altho it produced a beautiful bell shaped flower of white or red color. Tradi-



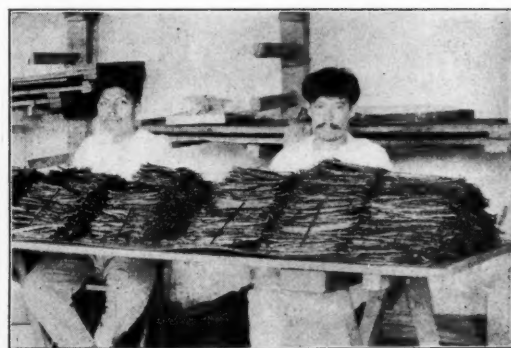
Sun Drying After Removal From Ovens

drilling or work of any kind (except the geologist surveys) has been done to date and nothing in the line of drilling or development work will start until there is a better understanding of the Mexican article No. 27. Commissioners are now seeking to discover whether adequate guarantees will be given by Mexico to the oil industry and that their properties will not be subject to confiscation. Until article No. 27 of the Mexican constitution is shown to have no retroactive effect upon oil or other lands, there will be no new drilling in Mexico.

The real cause of the vanilla shortage in Mexico was due to a cyclone that destroyed about fifty per cent of the plants some four or five years ago, which have never been re-planted. The plants are subject to blight and other diseases which the natives do not try to prevent as they give but little personal attention to the cultivation of this crop. Most of the planters of vanilla in Mexico are Indians, cultivating only small pieces of land, and their methods for stopping the plant diseases are the same as have been used for the past four hundred years. Another cause for the short crop was unfavorable weather conditions. The crop was smaller this year than was first estimated on account of the flowers falling off; this was noted mostly in the old plantations, there were flowers in plenty, but they fell off before the beans commenced to form. For



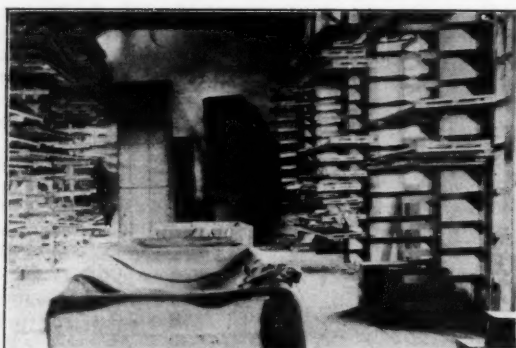
Fecundating the Flowers



Sorting Beans on Size and Quality

tions tell that the true discoverer of the vanilla bean was a Totonaco Indian, whose curiosity was aroused when he found a long finger like aromatic fruit on one of the wild vines. By close observation, he discovered that an insect in gathering honey from the flower had accidentally transported the pollen from the upper lip to the lower lip of the flower, thus fructifying the flower and producing the bean. From the time the plant is set out it takes three years to produce. The vanilla has no seed, but is grown from "slips" or "cuts" from the old vines. A good healthy vine in a rich soil, and the shade conditions favorable will have sometimes as many as 100 beans, but no vine should be allowed to have more than that number, 50 is the average.

The flowering season starts late in April and continues for about 6 weeks, from one to five flowers appearing every morning on each vine. The flowers



Ageing and Maturing Racks in Shed

are fructified daily, until the required number of beans assigned to each plant commence to form. By fructifying is meant the transferring of pollen from the upper to the lower lip of the flowers. To perform this delicate operation a small stick about the size and the shape of an ordinary tooth-pick, is best suited. The lower side of the flower is split, doubled back and by slightly moistening the tip of the stick, the pollen is easily transferred to the spot which produces the bean. Some times a small feather is used in place of a stick for this operation. After the fructifying season is over there is very little real work to be done, except the cutting of weeds. The cultivation of vanilla has many advan-



Wrapping Beans for Sweat Boxes

tages among others in that corn and similar products may be cultivated in conjunction with it.

The beans are ready to cut when a hard black speck forms at the tip of the bean. In fact too long on the vines, the beans become too ripe, and will split, and have only about a third the value of the perfect beans. The curing of the vanilla beans is a long process. First the beans are classified as to size, rolled in woolen blankets or jute, which is dampened, and then covered with a heavy grass matting, and placed in an oven at about 150 degrees Fahr., where the bundles are left for twelve hours.

When the bundles are taken out of the oven, if properly handled, the beans have changed from a dark green to a light brown color. The beans are then packed in wool lined boxes and allowed to sweat for twenty-four hours. Then the beans are unwrapped and placed on a cement floor in the sun to evaporate the moisture and absorb more heat. When the beans are at the proper temperature they are again packed in the wool lined boxes and the same process gone through again. This operation is repeated until the beans have lost all their moisture. During the process of curing, the beans are handled from 30 to 40 times over a period of six weeks. The beans when cured have lost about three-fourths of their weight, are soft, oily and flexible, and have a silk like feeling when drawn thru the hand.

For exportation the beans are classified as to size and quality, the split beans, and poorly cured beans being cut into pieces about $\frac{1}{4}$ inch in length and sold



Transportation in Cases to Coast

as "Picadura" or cuts. The whole vanilla beans are placed head to head, in uniform length and bound with a silk thread at the ends and middle of the bundle, making a small bundle about one pound in weight. These bundles are then wrapped in waxed paper, and packed in tin tubes especially manufactured for the purpose. The tubes are hermetically sealed, and are ready for exportation. The tin tubes are packed in cedar or mahogany packing cases, these woods being used so as to prevent the vanilla beans from absorbing odors in transit.

Good vanilla land can be bought for \$50.00 to \$100.00 pesos (\$25.00 to \$50.00 American currency) per hectare (2.47 acres). Cuts for planting cost from fifteen to twenty pesos, Mex. cy., per thousand, and it is estimated that about eight to ten thousand plants are required to plant a hectare (2.47 acres). The cost of planting will amount to about \$150.00 to \$200.00 Mex.

(Continued on page 159)

Witness Against Metz Heard in Secret

Judge Morris Takes Testimony of Dr. Stieglitz Before Counsel for Both Sides—Kresel Attacks Col. Metz on Alleged Impurity of Product Supplied to War Department—Vigorous Defense by Col. Anderson—Metz Issues Another Statement—Court Intimates that Government Case Will Collapse if Documentary Evidence Available Disproves Testimony Given by Metz—Private Formulas of Manufacturers Protected by Court Ruling.

(Special to DRUG & CHEMICAL MARKETS)

Wilmington, Del., July 18—Dr. Ernest H. Volwiler, chief chemist Abbott Laboratories, Chicago, Dr. Julius Stieglitz, University of Chicago, Frank D. Cheney, silk manufacturer, South Manchester, Conn., Henry B. Thompson, president U. S. Finishing Co., and Franklin W. Hobbs, president Arlington Mills, were the principal witnesses called by the defense in the Chemical Foundation suit. Col. Thomas W. Miller, Alien Property Custodian, who gave his direct testimony previously, was cross-examined by counsel for the defendant.

The examination of Dr. Volwiler raised the question whether the witness was obliged to give the details of the secret formula used by Abbott Laboratories which perfected a process for making certain products after the company had expended more than \$100,000 in research work in the endeavor to use a German patent which proved unworkable. Judge Morris ruled that the witness should not be required to disclose trade secrets. A written statement of these secrets might be made by the witness in the presence of the court and chief counsel on both sides, Judge Morris said, and sent under seal to the Court of Appeals, but there might not be any disclosure of them by counsel personally or in the briefs to be filed with the higher court.

The textile witnesses told of the decrease in prices of American dyes, and testified that before the war about 91.9 per cent of the colors used in the United States were imported from Germany, while today more than 84 per cent of the dyes used here are American made, and only ten per cent come from Germany. The remainder come from Switzerland and England.

Col. Miller said he considered himself a trustee for the enemy owners of the seized German patents, and that probably they would be returned to Germany, if the Government won its suit.

Letters written by Col. H. A. Metz were introduced to contradict and disprove Col. Metz's testimony. In offering the letters which passed between Col. Metz and Dr. Stieglitz, Isador Kresel counsel for the defense, said to the court:

"Your honor will recall that one of the points that I sought to bring out from Mr. Metz was that, notwithstanding he had sent his brother abroad, who had spent four months there in the factory of the Farbwerke Hoechst Co., trying to find out how to make arspenamine, it took Metz a year and a half thereafter before he could produce the product."

Col. Anderson objected to questions put by Mr. Kresel to Dr. Stieglitz, who was synthetic drug adviser of the Federal Trade Commission during the war. These questions were intended to bring out the name of the manufacturer, who according to Mr. Kresel, put forth a poisonous salvarsan which the War Department

administered to American soldiers and which resulted in the deaths of many of them. Mr. Kresel named Mr. Metz as the manufacturer.

Judge Morris directed the secrets be disclosed in chambers to him, Colonel Anderson and Mr. Kresel in the presence of a sworn stenographer. Judge Morris said that if the testimony, coupled with the letters that had been produced, showed that the German salvarsan patent under which Metz operated and other German patents produced impure products, and if the evidence showed the patents were worthless, the Government's charge that the dye industry conspired to effect a financially beneficial monopoly by getting these patents through the Foundation collapsed in view of the worthlessness of the patents, if they were proven worthless.

Mr. Kresel then attacked the Government's motives and Mr. Metz. He said: "We are charged with conspiracy. The Government has access to information to disprove that charge. The Government does not bring the information into court. When the defendant finds the information, the Government pleads that a statute prevents the disclosure of the information. When your Honor relieves them of any obstacle in that statute, they still try to keep closed the source of the information and insist on asking your Honor to convict these people of conspiracy. Yet they come into this Court and say they want all the facts to come out. Consistency! I don't believe they know the definition of the word."

"I am asking Dr. Stieglitz to state whether he knows that a manufacturer for two years tried to manufacture this product and could not because he did not know what Professor Stieglitz found out in his investigation, that you had to start with a perfectly pure intermediate or you made a poison instead of a medicine."

Col. Anderson replied: "I never saw Mr. Metz until two days before he testified. He was supposed to have valuable information on the value of these patents and was called solely on that ground. He is an American citizen, a successful business man, was in the uniform of the United States during the war and, I presume, discharged his duties. I would not have called Mr. Metz if I had not believed that his testimony could be relied on. While on cross-examination there were confusions in his testimony, in its material points so far as I can recall I do not think it has been seriously affected."

"You do not think the letters yesterday affected it?" asked Judge Morris.

"I do not," replied Colonel Anderson.

Charles L. Parsons, former chief chemist of the Bureau of Mines, testified that the Haber process was not adopted at Muscle Shoals, but that of General Chemical Co., which is used by Atmospheric Nitrogen Co., Syracuse, N. Y. When Dr. Parsons was in Germany, he was not allowed to inspect the nitrate plants, the managers saying that because of his experience it was not deemed advisable. He was in search of information which the Germans had purposely omitted from the patents filed in Washington.

With the testimony of experts on the value of the German patents, which is being offered this week, the case of the defense will be closed. The Government will then offer evidence in rebuttal. Arguments will be postponed until October, and a decision by the Court is not expected before the early part of 1924.

JUNE DYE IMPORTS DECREASE SLIGHTLY

Total Is 247,174 Pounds Compared With 261,869 Pounds In May—Leading Colors Are Patent Blue, Indanthrene Brown R, Pyrogene Blue, Erio Blue A B and Ciba Violet B

Imports of coal-tar dyes for June are grouped by Schultz numbers and in the case of those which could not be identified by Schultz number, the classification according to ordinary method of application was adopted.

The key to abbreviations follows:

1. The six leading German Companies
 - A....Actien-Gesellschaft fur Anilin-Fabrikation, Berlin. Founded 1873. Branches in France and Russia.
 - B....Badische Anilin- und Soda-Fabrik, Ludwigshafen on the Rhine. Founded 1862. Branches in France and Russia.
 - By....Farbenfabriken vorm. Friedr. Beyer & Co., Leverkusen on the Rhine. Founded 1862. Branches in France and Russia.
 - C....Leopold Cassella & Co., Frankfurt on the Main. Founded 1870. Branches in France and Russia.
 - K....Kalle & Co., A. G., Biebrich on the Rhine. Founded 1870. Branches in Russia.
 - M....Farbwerke vorm. Meister Lucius & Bruning, Höchst on the Main. Founded 1862. Branches in France and Russia.
2. The seven smaller German Companies
 - BK....Leipzig Anilinfabrik Beyer & Kegel, Furstenberg near Leipzig. Founded 1883.
 - GG....Chemikalienwerk Griesheim G.m.b.H., Griesheim on the Main. Founded 1881.
 - CJ....Carl Jager G.m.b.H., Anilinfabrik, Dusseldorf. Founded 1823.
 - Gr....Chemische Fabrik Griesheim-Electron, Offenbach on the Main. Founded 1842.
 - L....Farbwerk Muhlheim vorm. A. Leonhardt & Co., Muhlheim on the Main. Founded 1879. Branch in France.
 - LM....Chemische Fabriken vorm. Weiler ter Meer, Urdingen on the Rhine. Founded 1877.
 - WD....Wulfig, Dahl & Co., A. G. Barmen. Founded 1842.
3. Dutch, Belgian and French Companies
 - FA....Farbwerk Ammersfoort, Ammersfoort, Netherlands. Founded 1888.
 - NF....Niederlandische Farbe- und Chemikalienfabrik, Delft. Netherlands (Delft). Founded 1897. Branch in Russia.
 - LG....Lazard Godchaux, of Brussels. (These products are probably compounded largely from the dyes made by A. Wiescher & Co., of Haeren, Belgium.)
 - P....Societe Anonyme des Matieres colorantes et produits chimiques St. Denis (formerly A. Poirrier), St. Denis, near Paris, France. Founded 1830.
- 4.—Swiss Companies, all at Basel
 - DH....Farbwerke vorm. L. Durand, Huguenin & Co. Founded 1871. Branches in Germany and France.
 - G....Anilinfarben- und Extract-Fabriken vorm. Joh. Rud. Geigy. Founded 1764. Branches in France, Germany, and Russia.
 - I....Gesellschaft fur chemische Industrie. Founded 1885. Branch in France.
 - S....Chemische Fabrik vorm. Sandoz & Co. Founded 1887.
5. English Companies
 - ClCo....The Clayton Aniline Co. (Ltd.), Clayton, near Manchester. Founded 1876.
 - CR....Claus & Co. (formerly Claus & Reel), Clayton, near Manchester. Founded 1890.
 - CV....Colne Vale Chemical Co., Milnsbridge, near Huddersfield.
 - RHS....Read Holliday & Sons (Ltd.), Huddersfield. Founded 1830. (Purchases by British Dyes (Ltd.).)
 - BD....British Dyes (Ltd.). Founded 1915.
 - Lev....Levinstein (Ltd.), Crumpsall Vale, near Manchester. Founded 1864.
 - Q....Importations of unknown source, through dealers in colors.

The List of Dyes Follows:

Schultz No.	Dye & Maker	Quantity Pounds	Schultz No.	Dye & Maker	Quantity Pounds
6	Martins Yellow	300	545	Patent blue A	946
11	Aniline Yellow n.c.—B	4188	546	Brilliant acid blue A—c.—By	1951
19	Chloramine Orange	2120		Cyanol	
34	Chlorantine fast orange TL—c.—I	20		Cyanol extra—n.c.—C	
48	Chlorantine fast brown RL—L	500		Cyanol FF—n.c.—C	
81	Fast light yellow	2759	562	Fast acid blue	501
88	Fast light yellow 3G—c.—By	309		Brilliant wool blue FFR extra—By	
143	Chrysoidine R	4790	571	Rhodamine 6G	1167
150	Chrysoidine RL base—c.—B	179		Rhodamine 6G extra—n.c.—By	
159	Alizarin yellow 2G	440		Rhodamine 6GH—n.c.—I	
236	Alizarin yellow 2G paste—c.—M	100		Rhodamine 6GDN extra—n.c.—B	
260	Brilliant cochineal	1000		Rhodamine 6GDN extra—n.c.—Q	
265	Palatine scarlet A—B	24	573	Rhodamine B	2868
273	Acid anthracene brown	313		Rhodamine B extra—c.—B	
274	Acid anthracene brown R—c.—By	220		Rhodamine B extra—c.—I	
279	Acid anthracene brown RH—c.—By	1102		Rhodamine B extra base—c.—B	
288	Tropaeoline	25	597	Rose Bengale	
296	Yellow 11—c.—B	1102		Rose Bengale B—c.—M	
313	Acid Alizarin black	4740	603	Acridine Orange	
319	Acid alizarin black R—n.c.—M	4740		Acridine Orange DHE—n.c.—I	
323	Amaranth	200	606	Phosphine	
328	Amaranth B conc.	200		Coriophosphine OX extra—n.c.—By	
332	Wool red	200		Patent phosphine G—I	
339	Fast Bordeaux B—n.c.—BK	200		Patent phosphine R—I	
342	Eriochrome verdon	200	609	Homophosphine	
348	Eriochrome verdon S—n.c.—G	200		Flavophosphine G conc—M	
358	Sulphon cyanine black	200		Quinoline yellow (spirit soluble)—n.c.—By	
364	Acid milling black B—n.c.—G	200		Quinoline yellow (water soluble)	
369	Diaminogene blue	200		Quinoline yellow O—c.—Q	
370	Diaminogene blue NA—n.c.—C	200	618	Thioflavine T	
373	Diaminogene blue NB—n.c.—C	200		Tannodlavine T—n.c.—S	
379	Diaminogene blue NR—n.c.—C	200		Thioflavine T—n.c.—C	
382	Diazo Indigo Blue BR extra—n.c.—By	200		Rhoduline yellow 6GT—By	
389	Benzo fast scarlet	200		Cotton blue	
392	Direct fast scarlet SE—I	200		Cotton blue R extra—c.—B	
399	Palatine chrome black	200	649	Indochromine	
406	Acid alizarin black SE pdr—c.—M	200		Brilliant alizarin blue R pdr—c.—By	
413	Cotton yellow	200		Azo carmine	
419	Diamine fast yellow 3G—c.—C	200		Azo carmine GX—n.c.—B	
426	Congo Rubine	200		New fast gray	
432	Congo rubine—n.c.—A	200		Malta Gray J—c.—P	
439	Diamine Scarlet	200		Rosolane	
446	Benzo fast red 8BL—c.—By	200		Rosolane paste—n.c.—P	
453	Chrysamine KS	200		Pyrogene Blue	
459	Diphenyl red	200		Pyrogene direct blue	
466	Acetopurpurine 8B—n.c.—A	200		Thional brown	
473	Chloramine red 8BS—n.c.—By	200		Thional Brown G—n.c.—S	
480	Toluylene red—n.c.—GrE	200		Hydron blue (single strength)	
487	Diazo brilliant black	200		Hydron blue G—c.—C	
494	Diazo brilliant black B—n.c.—By	200		Hydron blue R—c.—C	
501	Brilliant Congo	200		Anthravilone G paste (single stgh)	
508	Brilliant Congo R—n.c.—By	200		Anthravilone GC paste—n.c.—B	
515	Congo Orange	200		Anthravilone GC pdr—n.c.—B	
522	Congo Orange R—n.c.—A	200		Indanthrene golden orange G (single strength)	
529	Toluylene orange	200		Indanthrene golden orange G double paste—n.c.—B	
536	Direct fast orange K—n.c.—I	200		Indanthrene golden orange G pdr—n.c.—B	
543	Trisulphon brown	200		Indanthrene golden orange R (single strength)	
550	Diphenyl brown TB conc—n.c.—G	200		Indanthrene golden orange RRT paste—n.c.—B	
557	Benzo fast blue	200		Indanthrene golden orange RRTS pdr—n.c.—B	
564	Benzo fast blue 2GL—n.c.—By	200		Indanthrene violet RR (single stgh)	
571	Benzo fast blue 4GL—n.c.—By	200		Indanthrene violet RR double paste—c.—B	
578	Setoglaurine	200		Indanthrene violet RR extra pdr—c.—B	
585	Setoglaurine 753—n.c.—G	200		Alizarin orange	
592	Neptune green	200		Alizarin orange AO—c.—BAC	
599	Brilliant acid green 6B—c.—By	200		Alizarin orange pdr—M	
606	Erioglaurine	200		Alizarin red S	
613	Erioglaurine AB—n.c.—G	200		Alizarin red S pdr—n.c.—B	
620	Erioglaurine AP—n.c.—G	200		Alizarin red SX extra paste—n.c.—By	
627	Fast Green	200		Alizarin red W pdr—n.c.—By	
634	Fast Green extra bluish—n.c.—By	200		Alizarin red IWS pdr—n.c.—M	
641	Fast acid violet 10B—I	200		Alizarin red GL RG	
648	Kiton fast violet 10B—I	200		Alizarin red YCA—c.—BAC	
655	Patent blue	200		Alizarin cyanine R	
662	Brilliant acid blue V—c.—By	200		Alizarin cyanine NS pdr—n.c.—By	
669	Patent blue V—c.—Q	200			
676	Patent marine blue LE—n.c.—M	200			
683	Cyanine B	200			
690	Cyanine B—n.c.—M	200			

(Continued on page 151)

ed. As the pastes and powders of the vat dyes vary widely in strength and quantity, each vat dye has been reduced—in nearly every case—to a single strength basis.

The designation "c." for competitive and "n.c." for non-competitive, indicates the appraisement basis for the assessment of the ad valorem duty in paragraph 28 of the tariff act of 1922. Those dyes without designation are doubtful, pending further investigation. Total imports were 247,174 pounds compared with 261,869 in May.

QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending July 14

	Bid	Asked		Bid	Asked
Air Reduction	58 3/4	60	Heyden Chem.	13 1/4	14
*Allied Chem. & D.	66 1/2	66 3/4	Hooker Electro.	53	65
*Allied Ch. & D. pf. 107 1/2	108	108	Hooker Electro. pf.	60	70
*Am. Ag. Ch.	13 1/2	13 3/4	*Household Products	30	30 1/4
*Am. Ag. Ch. pf.	34	36	*Int. Agricult.	2 1/4	2 3/4
*Am. Chicle.	11	11 1/4	*Int. Agricult. pf.	8	9 1/4
*Am. Chicle. pf.	40	49	*Int. Nickel.	12 1/2	12 3/4
*Am. Cot. Oil.	4	4 1/4	*Int. Nickel. pf.	8 1/2	8 3/4
*Am. Cot. Oil. pf.	13 1/4	14 1/4	*Int. Salt.	77	80 1/4
*Am. Cyan.	48	51	*Mathieson Alk.	38 1/2	41
*Am. Cyan. pf.	73	75	Merck & Co. pf.	80	86
*Am. Druggist S.	4 1/2	4 3/4	Merrimac.	96	96
Am. Glue.	82	85	Mulford Co.	29	34
Am. Glue. pf.	124	126 1/2	Mutual Co.	150	150
*Am. Linseed.	18 1/4	19 1/4	*National Lead	112	113
*Am. Linseed. pf.	38	42	*National Lead. pf.	108	108 1/2
*Am. Malt.	12	13	N. J. Zinc.	161	155
*Am. Zinc.	8 1/4	9	Niag. A. pf.	96	100
*Am. Zinc. pf.	31	35	Parke, Davis & Co.	77	77
*Atlas Powder.	174 1/4	174 3/4	Penn. Salt.	80	89 1/2
*Atlas Prod. pf.	83	90	*People's Gas, Chi.	89 1/2	90
By. Prod. Co.	67	72	Procter & Gamble.	124	123
Carborundum.	138	135 1/2	Procter & Gamble. pf.	102	106
Carborundum. pf.	115 1/2	116	Royal Bak. Po.	122	130
Casein Co.	60	65	Royal Bak. Po. pf.	98	101
Celluloid Co.	85	90	Sherwin-Williams	27 1/2	28
Celluloid Co. pf.	108	111	Sherwin-W. pf.	100 1/4	100
Ches. Mfg.	220	230	Stand. Ch.	90	100
Ches. Mfg. pf.	108	113	Swan & Finch.	25	30
Com'l Solv. A.	29	30	*Tenn. C. & Chem.	9	9 1/4
Do B.	25	30	*Tex. Gulf. Sul.	65 1/2	56
*Corn Products.	118 1/2	118 3/4	Union Carbide.	52 1/2	53 1/4
*Corn Products. pf.	116	119	Union Sulphur.	77	78
*Davison Chem.	29 1/2	30 1/2	*Un. Drug.	47	48 1/4
Dow Chem. non par.	40 1/2	40 1/2	*Un. Drug. 1st pf.	47	48 1/4
Dow Ch. pf.	96	96	*Un. Dyewood.	40	47
Du Pont de Nem.	118 1/2	118 1/2	*Un. Dyewood. pf.	87	95
Du Pont de Nem. Db.	81	83 1/2	Un. Gas Imp.	49 1/2	49 1/2
Eastman Kodak.	104 1/2	105 1/2	Un. Gas Imp. pf.	55 1/4	55 1/4
Eastman Kodak. pf.	108 1/2	109 1/2	U. S. Gypsum.	51	55
*Freepoint Tex. Sul.	10 1/2	11	*U. S. Indus. Al.	45	46
Freep. Tex. Sul. pf.	91	93	*U. S. Indus. Al. pf.	93	103
*Grasselli.	125	138	*Va.-Car. Ch.	74	74 1/2
*Grasselli. pf.	102	105	*Va.-Car. Ch. pf.	21	22
Hercules Powder.	100	105	*V. Vaudouin.	16 1/2	17
Hercules Powder. pf.	102	104			

*Listed on New York Stock Exchange

The turnabout in Mathieson Alkali common stock marketwise which carried the issue up five points from the year's low is a reflection of the company's current earnings and prospects, says "Financial America." May earnings were about as good as the best previous month this year, and it is understood that June net was virtually as large as May. Mathieson will probably report better than \$5 a share earned for the common in the first half of the year. Earnings in the second half of the year usually run larger than in the first half, consequently it would not be surprising if \$12 is reported for the common in the current year.

Continental Can Co., Inc., has declared a quarterly dividend on common stock, payable Aug. 15 to stock of record Aug. 4. The new rate represents an increase from an annual basis of \$3 to \$4 a share.

Creditors of Seydel Chemical Co., now in the hands of receivers, will meet on Monday, July 30, at 2 o'clock, in the U. S. District Court, 75 Montgomery st., Jersey City.

American Zinc, Lead & Smelting Co.'s common stock amounting to 100 shares was recently sold at the Vesey Street Auction Rooms, New York, for \$8.12 1/2 share.

Columbian Carbon Co. has declared a quarterly dividend of \$1 on the voting trust certificates, payable Aug. 1 to stock of record July 20.

Archer-Daniels-Midland Co. declared an initial quarterly dividend of \$1.75 on preferred stock, payable Aug. 1 to stock of record July 20.

Judgment for \$426.70 has been filed in New York County by United Naval Stores Co., Inc., against Joseph Feirstadt.

H. A. Metz & Co., New York, have obtained judgment against Nitro Powder Co. for \$2,486.85.

New Incorporations

Chemical Industry

Tragan Mfg. Co., New York, \$25,000. Drugs. T. J. Carroll, H. Neustadt, J. A. Barry. Attorney, E. J. Kelly, 302 Broadway.

Research, Inc., Boston, \$200,000. Manufacturing and consulting chemists. Charles A. Andrews, Newton; Grosvenor Calkins, Newton; Gladys O. Mitchell, Arlington.

Clear-O-White Laboratories, Queens, N. Y., \$100,000. Chemicals. L. Newcomb, H. Lube, S. M. Wachs. Attorney, L. Muraskin, 63 Park Row, New York.

Gibraltar Lubricating Co., Wilmington, Del., \$100,000. To deal in oil and grease. Delaware Registration Trust Co.

Hungaria Wells, New York, \$100,000. Chemists. I. McGratty, F. Henriques. Attorney, H. H. Keefe, 342 Madison ave.

John Powell & Co., New York, \$25,000. Deal in drugs. J. Powell, A. B. Raymond, G. R. Rinke. Attorney, A. W. Rinke, 165 Broadway.

California Chemical Corp., 155 E. Superior st., Chicago. Chemicals; 1,000 shares of stock, no par value. S. H. Howes, E. C. Tourje, F. S. Barrows.

Consuming Industries

Logan-Robinson Fertilizer Co., Wilmington, Del., \$100,000.

Ammonite Co., New York, \$55,000. To make chemicals and drugs. W. P. Ten Eyck, H. N. Shreve, W. Schmidtman. Attorney, F. J. Knorr, Albany.

Florida Paper Mills Co., Leesburg, Fla., \$500,000. W. S. McClelland, Charles E. Daniell, Leesburg.

Missouri High Gloss Varnish Co., St. Louis, \$50,000. Varnishes, stains. W. W. Sanders, H. S. Eddie, C. A. Neil.

Aurora Paper Products Co., Hackensack, N. J., \$250,000. Carl M. Legg, Wm. R. Sommer, Cornelius Kerkhof, 43 State st., Hackensack.

Superior Net Co., 731 Haddon ave., Collingswood, N. J., \$100,000. Manufacture cotton, silk, and worsted goods.

Otaka Paper Co., Dover, Del., \$200,000. Manufacture. William A. Lorenz, Penrose R. Hoopes, Hartford, Conn.; James E. Lyons, Fall River, Mass. U. S. Corporation Co.

Marathon Tanning & Shoe Corp., Marathon, N. Y., \$1,000,000. Shoes and footwear. F. G. Stone.

Carlson-Sharp, 14 W. Blackwell st., Dover, Del., \$125,000. Roofing materials.

Klotz Silk Mfg. Co., 1056 Main ave., Clifton, N. J., \$250,000. Silk and other textile fabrics.

Pepsi Cola Corp., Richmond, Va., \$250,000.

Dello Ink Corp. of Pennsylvania, Philadelphia, \$100,000. Corporation Guarantee and Trust Co.

Chu-Zoar Gum Co., Wilmington, Del., \$100,000. Chewing gum and candy. Horace G. Eastburn, Wilmington, Del.

Roman Knitting Mills, New York, \$100,000. M. E. Morris, A. G. Wormser, L. Koch. Attorney, A. Brill, 299 Broadway.

T. P. A. Co., Inc., Brooklyn, N. Y., \$250,000. Toilet preparations. Daniel D. Unger, 1423 Sterling Place, Brooklyn.

Walker Pine Products Corp., Wilmington, Del., \$3,000,000. Make spirits turpentine and rosin. Wm. J. Ryan, Wm. L. Knebel, and Oliver P. Bartlett. Corporation Trust Co.

Atlas Chemical Solvent Corp., Wilmington, Del., \$200,000. Rep. D. Udren, Front and Adams sts., Brooklyn.

Hexagon Chemical Co., Wilmington, Del., \$600,000. Corporation Trust Co.

Marathon Tanning & Shoe Corp., Marathon, N. Y., \$1,000,000. F. G. Stone, D. E. Barton, M. J. Knickerbocker. Attorney, J. A. Smith, Endicott, N. Y.

Schenectady Varnish Co., Schenectady, N. Y., \$400,000. W. H., and De F. and F. T. Wright. Attorneys, Strong & Golden, 128 Wall st., Schenectady.

Ridgefield Concrete Mfg. Co., Post Office Bldg., Edgewater, N. J., \$150,000. Manufacturing tiles, ceramic and potteryware.

Jamieson-Doane Drug Co., Seattle, Wash., \$100,000.

Fertilizer Reduction Co., Seattle, Wash., \$1,000,000.

Olympic Paper & Pulp Co., Seattle, Wash., \$600,000.

W. L. Hand Medicine Co., Charlotte, N. C., \$350,000.

Keinig Auto Painting Corp., Elizabeth, N. J., \$100,000.

Carlsten Tire & Rubber Co., Dover, Del., \$550,000. Manufacture.

Kalypto Products Corp., Buffalo, N. Y., \$40,000. Perfumes and medicines. F. W. Kirbis, L. L. Burnham, H. S. Edmonds.

Attorneys, Saperston, McNaughton & Saperston, Buffalo.

Gordon Woolen Mills, New York, \$50,000. N. A. and G. H. Gladstone, H. Yecha. Attorney, R. Spear, 220 W. 42nd st.

Shanahan & Elliott Ice Cream Co., Philadelphia, \$100,000. Corporation Guarantee & Trust Co.

Bedford-Downs Ordnance Co., 36 E. State st., Trenton, N. J., \$500,000. Make munitions.

Hite Drug Co., Wilmington, Del., \$250,000. Drugs and medicines.

Cellulose Utilities Corp., Dover, Del., \$100,000,000. To conduct research.

Brown Paper Mill Co., Monroe, La., \$1,000,000.

Otra Chemical Co., New York, \$100,000. Drugs. F. W. Bode, O. C. Carpenter, and E. F. Carney. Attorneys, Holmes, Rogers and F. Carpenter, 20 Broad st.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 168

ARSENIC DECLINES ON SLOW DEMAND

Stocks Reported Abundant in the Market—Imported Sodium Sulfide Weak—Prussiates Continue Downward—Copper Sulfate Quiet—Glauber's Salt Higher

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Glauber's Salt, tech., 5c 100 lbs.			
Arsenic, white, 1½c lb.		Sodium Chlorate, ¼c lb.	
Copper Sulfate, 10c 100 lbs.		Sod. Sulfide, 1m., 60%, ¼c@½c lb.	
Imp., ¼c lb.		Copper Carbonate, 1c lb.	
Potassium Prussiate, yel., 1c lb.		Copper Oxide, ¼c lb.	
Sodium Prussiate, ¼c lb.		Potassium Bichromate, ¼c lb.	

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial....lb.	\$1.234	\$1.234	\$1.234	\$0.884	\$1.194	\$0.7
Sulfuric Acid, 66 deg. ton	15.00	15.00	15.00	14.00	55.00	20.00
Ammonium Sulfate, 100 lbs.	3.15	3.15	3.20	2.85	7.50	1.50
Bleaching Powder, 100 lbs.	1.75	1.75	1.90	1.60	9.50	1.50
Copper Sulfate, 100 lbs.	5.25	5.40	5.50	5.85	20.00	4.50
Potash Caustic, 100 lbs.	.074	.074	.074	.054	.87	.08
Soda Ash, 38 pc., 100 lbs.	2.00	2.00	2.00	2.00	3.60	.60
Caustic Soda, 76 pc., 100 lbs.	3.70	3.70	3.70	3.71	9.50	1.42
Potassium Bichromate, lb.	.11	.11	.114	.10	.65	.064
Sodium Prussiate, lb.	.134	.14	.16	.21	1.25	.18
Average	3.130	3.145	3.178	3.057	10.79	2.99

While the usual quiet summer trading in chemicals is in progress, and little interest is being manifested on the whole, a few factors report that there has been a small revival in buying, and business during the past week has been slightly better than prevailed during the last few months. However, what little activity there is has had no effect upon holding prices steady, especially in imported chemicals, and many items are still on the downward grade. Domestic manufacturers are operating steadily except in a few seasonable commodities. White arsenic is occupying attention in that the price has broken sharply from the recent levels and the position is very uncertain. Calcium arsenate has not been going according to expectations this year. While it is being consumed in the south the quantities have not been large, up to date, and the prediction of a large cotton crop this year is not helping sales. Local dealers still have large supplies which they are willing to sacrifice, but there is no demand. Arsenic production has been increasing steadily and supplies are quite abundant at present. Alkalis are moving steadily and present a firm appearance. Heavy acids are more or less routine. Copper sulfate has declined and the market is less active. Prussiates have slipped still further. Potassium bichromate is offered lower. Imported sodium sulfide has dropped considerably. Domestic Glauber's salt present a firm front and is quoted at higher prices.

Acid, Acetic—Makers report a steady consumption though the volume of buying is not as large as has recently prevailed. Prices are unchanged with makers quoting the 28% at \$3.38@3.63 in bbls. at works; 56%, \$6.75@7.00; 70%, \$8.38@8.63; 80%, \$9.58@11.60; Glacial, \$12.78@13.53.

Acid, Muriatic—Production is proceeding steadily though buying has not been as active during the summer. Contract deliveries are proceeding regularly. Makers are holding prices steady with 18° in tanks at works at 90c@1.00 and carboys at \$1.00@1.10; 20° in tanks, \$1.00@1.10; carboys, \$1.25@1.50; 22°, \$1.75@2.00 in carboys.

Acid, Oxalic—Makers are holding prices at 12¼c@12½c lb. at works and spot prices are 12½c@13c lb. in barrels and kegs, 13c@13¼c lb. Imported is named at 12c@12½c lb. spot.

Acid, Sulfuric—Buying has fallen off during the summer months but a steady volume of business is still being done. There is no over production and prices continue firm at \$15.00@16.00 ton in tanks at works, for 66 degree acid; carboys at \$1.25@1.50; drums, \$1.10@1.25; 60 degree acid is in good volume with prices at \$9.00@10.00 in tanks; drums 60c@70c. Oleum in steady demand with supplies still limited; quotations at \$18.00@19.00 in tanks at works and \$1.25@1.75 in drums, works.

Acetone—Still in limited supply with makers firm at \$1.00@1.05 gal. for methyl and 25c@25½c lb. for the C.P. in drums at works; resale prices on spot at 30c@32c lb.

Alums—Demand has been quiet and business outside of contract deliveries has been confined to small quantities. Ammonia lump named at \$3.50 and ground at \$3.65; potash lump, 4½c lb. at works while imported is held at 3c@3¼c lb. chrome, 5½c@6c lb.; soda, 3¼c@4c lb.

Arsenic—Prices have broken sharply as lack of buying interest becomes more pronounced and supplies become more abundant in the market. The consumption of calcium arsenate has been below expectations and this has had a bearish effect upon the sales of arsenic for next year. Spot prices for arsenic are reported at 10c@11c lb. while calcium arsenate is offered at all kinds of prices in order to move stocks on hand. Imports of white arsenic last week totaled 1255 cases which were mainly from Japan. Red arsenic is in small supply and prices firm at 15c@15½c lb.

Bichromates—Demand has not been active during the past few weeks and makers are still inclined to reduce their prices in competition for business though production has been somewhat limited. Soda is unchanged at 8c@8¼c lb. at works while potassium bichromate is down slightly to 10¼c@11c lb.

Bleaching Powder—Reduced business is being done at \$1.75@1.90 for large drums at works. Stocks are ample for the summer business. Spot bleach at \$2.25@2.50. Some imported around but does not affect the market.

Fertilizers—Sodium nitrate has been moving well the past week at \$2.42½, spot. Ammonium sulfate offered at \$3.15 on contract, \$3.20 at works in bags; f.a.s. \$3.50@3.60. Fish scrap sold at \$3.75 works, and asking \$4.00; acid scrap, \$3.50 & .50; tankage, \$3.25 & .10, spot.

Potash Caustic—Buying is along routine lines and prices holding at 7¼c@7½c lb. for imported, spot. Domestic make is named at 9c@10c lb. as to quantity at works.

Sodas—Caustic is moving on contract while spot business is fair. A small export movement is in progress with prices at \$3.25@3.30. Spot prices range from \$3.20@3.70 depending upon the brand and quantity. Makers are steady at \$3.16½ for 76% solid at works, on contract. Soda ash is moving well and less subject to price cutting and competition. Spot in bags at \$2.00; bbls., \$2.25; contracts placed at \$1.45@1.50 for 58% light in bags at works.

OPPOSE CHANGE IN FREIGHT ON DIP

C. C. Baird, president Insecticide and Disinfectant Manufacturers Association, Holbrook, Mass., has called the attention of members to the proposed change in the carload classification of dip, animal or poultry, N. O. I. B. N. liquid, from Class "C" to Class 5, and other than liquid from Class "A" to Class 5 in Western Classification Territory, which is before the Consolidated Classification Committee of the Railroads now in convention at Hotel Traymore, Atlantic City. He says the increase in freight will fall on the farmer and suggests an appeal to Senator Arthur Capper urging him to use his influence against the change.

The association urges members to take immediate steps through customers in Georgia to point out objections to a bill recently introduced in the Georgia Legislature, requiring manufacturers of insecticides to print a full list of ingredients on the containers.

The price of zinc continues to advance with July shipments 6.25, August 6.25 to 6.30 and September 6.30 cents a pound, East St. Louis. This advance is due to good demand from galvanizers but is based mainly upon strength of ore prices in the Tri-State field and unwillingness of smelters to make commitments upon zinc unless price will permit replacement of ore stocks at \$36 or better a ton for Joplin concentrates. The present is a period of readjustment in zinc. Price declined until many mines closed. Now price is climbing to a level which will result in sufficient output to satisfy demand. Demand for zinc oxides has declined because of slackness in the tire and paint industries.

FALL IN LEAD PRICES EXPLAINED

Rapidly fluctuating prices are not acceptable to National Lead Co., which desires stable conditions in both raw materials and finished products, says "Wall Street Journal." At present the lead company has about the largest stock of finished products in its history, mostly made from pig lead that cost 7¼ to 7½ cents. Pig metal stocks and metal in process are comparatively low. National Lead is making a refund of \$10 a ton to dealers in respect to unsold stocks in their hands, following recent cut of ½ cent a pound in lead products. Dealers' contracts with the lead company protected them against decline.

In 1923 stocks of lead and production in the United States were not sufficient to cover consumption. Price of pig rose rapidly from \$7.25 a hundred pounds on Dec. 31, 1922, to a high of \$8.25. Quotation was approximately fixed by the London price plus freight and tariff.

Recently production has been increasing as result of stimulation by high prices. Consumption has been decreasing. Spot lead in London sells at approximately the equivalent of 5.02 cents, and three months' lead at 4.89 cents. As the tariff on lead entering the United States is about 2½ cents a pound, and the price in this country now is 6 cents a pound, Mexican smelted lead is now naturally seeking the London market.

British ferro-manganese producers have reduced prices \$7.50 a ton to \$117.50, c.i.f. The price has risen in a year from \$62.50 to a high of \$125 a ton.

JUNE DYE IMPORTS

(Continued from page 148)

Schultz No.	Dye & Maker	Quantity Pounds	Schultz No.	Dye & Maker	Quantity Pounds	Dye & Maker	Pounds
799	Alizarin cyanine G.....	440	562	Alizarin blue black.....	6692	Polar yellow 2G conc.-n.c.-G.....	
	Alizarin cyanine NSG pdr.-n.c.-By			Alizarin blue black B-c.-By.....		Polar yellow 5G conc.-n.c.-G.....	
804	Alizarin blue S.....	2183		Alizarin blue black B-c.-Q.....		Supramine black BR-n.c.-By.....	99
	Alizarin blue S extra paste-n.c.-By		865	Alizarin blue black B pdr.-c.-M....	2113	Supramine brown R-n.c.-By.....	148
808	Alizarin green S paste.....	1358		Alizarin cyanine green G extra pdr.		Supramine red B-n.c.-By.....	446
	Alizarin Green S paste-n.c.-BAC..			c.-By.....		Supramine red 2G-n.c.-By.....	
814	Algol yellow WF (single strength)...	634	870	Algol corinth R (single strength)...	399	Supramine yellow G-By.....	409
	Algol yellow WF pdr.-n.c.-By.....			Vat corinth RK paste-By.....		Supramine yellow R-n.c.-By.....	
819	Algol FF.R (single strength).....	1207	892	Helindone green G (single strength)...	550	Wool black GRF-c.-A.....	1000
	Algol brilliant red 2B pdr.-n.c.-By			Helindone green G pdr.-n.c.-M....		Wool black for printing N-I.....	441
820	Algol red FF extra paste-n.c.-By..		893	Alizarin indigo G.....	441	Wool printing black CVT-I.....	441
	Algol brilliant violet R (single strength).....	110	901	Ciba violet B (single strength).....	7053		
	Algol brilliant violet R paste-n.c.-By			Ciba violet B paste-n.c.-I.....			
821	Algol brilliant violet 2B (single strength).....	264		Ciba violet R dbl. paste-n.c.-I.....			
	Indanthrene brilliant violet BBK pdr.-n.c.-B.....		902	Helindone brown 2R (single stgth.)	373		
827	Indanthrene claret B extra (single strength).....	165		Helindone brown 2R paste-n.c.-M....			
	Indanthrene claret B extra paste-n.c.-B.....		907	Ciba scarlet.....	3640		
	Anthra-bordeaux R pdr.-n.c.-B.....			Ciba scarlet G extra paste-n.c.-I..			
830	Indanthrene red R (single strength)...	1317		Thio indigo scarlet 2G paste-n.c.-K			
	Indanthrene red R paste-n.c.-B.....		910	Helindone pink.....	725		
831	Indanthrene red BN (single stgth.)...	215		Helindone extra-M.....			
	Indanthrene red BN extra pdr.-n.c.-B.....			Helindone pink BN paste-M.....			
833	Algol olive R (single strength).....	480	911	Ciba orange G.....	110		
	Algol olive R pdr.-n.c.-By.....			Ciba orange G paste-I.....			
840	Indanthrene blue 3G (single stgth.)...	2300	913	Helindone orange R.....	1100		
	Indanthrene blue 3G pdr.-B.....			Thioindigo yellow 3GN paste-n.c.-K			
842	Indanthrene blue GCD (single stgth.)		915	Helindone fast scarlet R pdr.-n.c.-M	2800		
	Indanthrene blue GCD dbl. paste c.-B.....			Helindone fast scarlet R pdr.-n.c.-M			
844	Algol blue 3G (single strength).....		918	Helindone red 3B.....	220		
	Algol blue 3G pdr.-n.c.-By.....			Thioindigo red 3B paste-n.c.-K....			
852	Alizarin irisol DR.....	42	920	Helindone violet (single strength)...	550		
	Alizarin irisol R pdr.-n.c.-By.....			Helindone violet R pdr.-n.c.-M....			
854	Alizarin viridine FF paste-n.c.-By	202					
	Alizarin viridine FF paste-n.c.-By						
855	Alizarin pure blue.....	1561					
	Alizarin sky blue pdr.-n.c.-By.....						
856	Alizarin Astrol.....	220					
	Alizarin astrol, B pdr.-n.c.-By.....						
858	Alizarin saphirol B.....	4677					
	Alizarin light blue B conc.-c.-S....						
	Alizarin saphirol WSA pdr.-c.-By..						

Unclassified Acid Dyes

Dye & Maker	Quantity Pounds
Acid milling yellow G conc.-S.....	2002
Acid violet 4 RNOO-c.-B.....	22
Alizarin cyanol red B-C.....	2
Alizarin direct violet ER pdr.-n.c.-B..	85
Alizarin rubinol.....	1812
Alizarin rubinol 3G-n.c.-By.....	
Alizarin rubinol GW pdr.-n.c.-By.....	
Alizarin rubinol R pdr.-n.c.-By.....	
Brilliant milling blue B-n.c.-C.....	610
Cyananthrol RXO-n.c.-B.....	110
Kiton pure blue AFL-I.....	441
Kiton yellow G-I.....	331
Onis 3 B (anthosine 3B)-n.c.-B.....	110
Onis 5 B (anthosine 5B)-n.c.-B.....	55
Polar yellow.....	1543

Dye & Maker	Pounds
Benzo fast black L-c.-By.....	110
Benzo fast brown 3GL-c.-By.....	252
Benzo fast heliotrope.....	260
Benzo fast heliotrope 4BL-n.c.-By.....	
Benzo fast heliotrope 5RH-n.c.-By.....	
Benzo light brown 3GL-c.-By.....	110
Benzo red 12B-c.-B.....	1110
Brilliant pure yellow 6G extra-n.c.-By	85
Benzo Scarlet BC-c.-By.....	110
Brilliant benzo violet B-n.c.-By.....	440
Brilliant sky blue 8G extra-n.c.-Q.....	1060
Chlorantine fast brown 3GL-I.....	2205
Chlorantine fast gray B-I.....	220
Chlorantine fast orange 7RL-c.-I.....	2205
Chlorantine fast violet 2R-I.....	1102
Chlorantine fast yellow 4GL-I.....	331
Developing blue 2R-A.....	500
Diamine brilliant violet B-n.c.-C.....	2000
Diamine fast blue.....	2220
Diamine fast blue FFG-c.-C.....	
Diamine fast bordeaux 6BS-n.c.-C.....	
Diamine fast brown.....	1055
Diamine fast brown GBB-n.c.-C.....	
Diamine fast brown 3G-n.c.-C.....	
Diamine fast brown R-n.c.-C.....	
Diamine fast orange ER-n.c.-C.....	936
Diamine fast violet.....	220
Diamine fast violet FFBN-n.c.-C.....	
Diamine fast violet FFBN-C.....	
Diamine orange.....	1524
Diamine orange B-n.c.-C.....	
Diamine orange F-C.....	

(Continued on page 153)

The Intermediate and Dye Market

Current Spot Quotations of Intermediates, see Chemicals, page 168

ANOTHER PRODUCER IN PHENOL MARKET

Sets New Price Level for Synthetic Phenol—Cresylic Acid Tending Lower—Naphthalene in Small Demand—Xylene Lower—Dyes and Intermediates Quiet.

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced No Advances Declined			Xylene, 15c gal.		
	Trend of the Market					
	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Benzene, pure	gal. \$.27	\$.27	\$.27	\$.30	\$ 1.10	\$.25
Naphthalene flake	lb. .07 $\frac{3}{4}$	.07 $\frac{3}{4}$	.08	.07	.16	.08
Phenol, Spot	lb. .37	.37	.50	.12	1.50	.08
Toluene, pure	gal. .29	.29	.29	.30	..	..
Aniline Oil	lb. .16	.16	.16	.14	1.40	.10 $\frac{1}{2}$
Alpha-naphthylamine	lb. .35	.35	.35	.30	1.25	..
Benzaldehyde	lb. .75	.75	.75	.65	..	..
Betanaphthol, dist.	lb. .22	.22	.23	.23	1.50	.08
Dimethylaniline	lb. .41	.41	.41	.42	1.30	..
Paranitroaniline	lb. .74	.74	.74	.75	1.85	.18
Average .....	.369	.369	.376	.331	..	..

Quiet conditions continue to prevail in the market for coal-tar products. Little interest is manifested, the usual summer dullness being apparent on all sides. Little activity is looked for until near the close of the warm weather. Manufacturers of intermediates are holding prices steady, though a few resale lots are offered at lower prices in the market. Buyers are showing no interest in these and there is little pressure to sell. While intermediates have been quiet, dyestuffs have been even more inactive. The only feature has been the announcement of the entrance into the market of another maker of synthetic phenol. This makes the second who has entered the field and a third is soon expected. The price announced sets a lower level than has prevailed since last November. Demand for naphthalene is at a minimum and prices for all grades have gradually declined. The season for flake is over while dyestuff naphthalene is quiet. Cresylic acid is moving in a fair way. Competition and recent slow demand have gradually brought prices down, though they are still beyond many consumers' ideas. Any buying would again send the prices upward. Benzene and toluene are in good supply at unchanged prices. Xylene is offered lower.

Coal-Tar Crudes

Benzene—Stocks continue plentiful and production is keeping up at a steady rate. Demand for industrial purposes has been limited and the largest volume is being consumed at present as motor fuel for which the lower grades are used. Producers are holding prices unchanged at 25c@30c per gallon as to quantity for 90 per cent and 27c@32c per gallon for the pure.

Cresylic Acid—Lack of important buying and competition among sellers are tending to bring prices to lower levels. Supplies are also more plentiful than a few months ago but with prices at \$1.00@\$1.15 per gallon for pale, consumers are only buying as required. A few carlots have been sold in single orders but they are exceptional. Dark material is offered from 70c@\$1.00 depending upon the quality but there is little buying of this material.

Naphthalene—The season for selling flake is at an end and there is no demand. Holders are offering at

low prices but there is no interest. Dyestuff naphthalene is also more plentiful and prices from 5 $\frac{1}{4}$ c@6clb. are prevalent. Flake is down to 7 $\frac{1}{4}$ clb. and balls at 8clb. Imports last week showed 1427 bags of crude naphthalene entered.

Phenol—The trade was only moderately interested in the announcement of another manufacturer in the field with prices lower than those prevailing in the market. Spot material is quoted at 36c@38clb. with little activity. The latest maker is quoting 35clb. f.o.b. works. Another maker continues to quote 50clb. but it is said lower prices can be done. Production is gradually increasing, both in synthetic and natural phenol, and as production and competition gain prices respond by moving downward. Demand has not been active because of the high prices but a good buying movement is looked for with lower prices in effect.

Pyridine—Continues very scarce both here and abroad. Local prices range from \$3.75@\$4.25 as to seller and quantity.

Toluene—Stocks have been improving steadily while demand has not been encouraging. There is no over supply and improvement in buying would bring the situation close. Tanks are named at 29c@30c gallon at works and drums at 34c@35c gallon.

Xylene—Producers have occasional tanks and drums which are sold at 60c@75c per gallon as to quantity. Prompt delivery material is lower in other directions at 85c per gallon.

Intermediates

Acid, Anthranilic—Routine demand with technical named at 96clb. and refined at \$1.20lb.

Acid, Gamma—Demand for dyes made from this acid has dropped off and only routine business is passing. Makers are holding prices steady, however, at \$1.70@\$1.80lb.

Acid, H—Continues in steady demand and makers continue to operate at close to capacity. Prices are holding steady at 75c@77clb.

Aniline Oil—Spot business has been confined to small quantities though contract shipments are proceeding steadily. Makers are holding prices firm at 16c@17clb. though occasional lots are offered in the market slightly under these levels.

Alpha-naphthylamine—There has been no activity to speak of and the routine business passing is being done at 35c@37clb. according to seller and quantity.

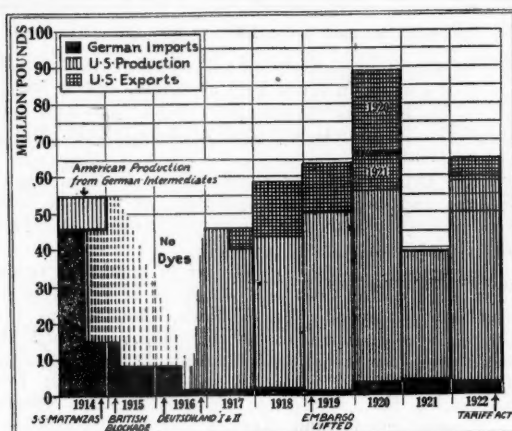
Benzaldehyde—Continues firm and in limited supply with makers holding technical unchanged at 75clb.

Benzidine—Only moderate buying is reported with makers holding prices at 84clb. though as low as 80clb. is possible.

Beta-naphthol—Makers and sellers are marking time waiting for a resumption in buying as low priced resale material or shading by makers does not tempt the buyers. Better buying is expected within the next month. Makers are holding to 23clb. while resale lots are heard of at 20c@21clb.

Dimethylaniline—There has been no buying and makers are waiting a resumption of activity. Very little resale material is available and makers are firm at 41c@43clb. Recent strength in alcohol is keeping the market firm.

Ortho-toluidine—Makers continue to hold to 14c@ 16clb. but business can be done at 13clb. on firm orders in some directions.



The average price of American dyes in 1922 was only 60 cents per pound compared with \$1.25 per pound in 1917, according to the "Census of Dyes" just issued by the United States Tariff Commission. In 1914 Germany had a monopoly in dyes in the United States. The opening of the World War caused the first drop

in imports of German dyes. When the British blockade became effective, practically no dyes could be obtained on the American market for a short period. At the beginning of 1917 American dye production rose by leaps and bounds and toward the end of the year this country was exporting dyes. The high water mark was reached in 1920 with a total production of 85,000,000 pounds. Up to the time of the French occupation of the Ruhr, certain German dyes, not made in the United States, were imported. It is said that a color much needed by a textile manufacturer for special work, and worth about \$1,000, brought \$30,000. The chart was prepared from a diagram drawn by Charles H. Herty, president Synthetic Organic Chemical Manufacturers' Association, and published recently in "The New York Times."

E. I. du Pont de Nemours & Co., Wilmington, Del., have decided to remove their dye works at Lodi, N. J., formerly the plant of the United Piece Dye Works, to their new works at Carney Point, N. J., on the Delaware River, where operations will be concentrated.

Florida Aniline Works, Inc., Woodbridge, N. J., has made application to the Township Committee for permission to install a plant at the old Calco factory at Edgar's Station.

National Dye House, Providence, R. I., has filed notice of organization to manufacture dyes. Peter Saslow heads the company.

JUNE DYE IMPORTS

(Continued from page 151)

Dye & Maker	Pounds
Diaminogen sky blue N-n.c.-C.	441
Dianil fast blue RL-M	110
Dianil fast scarlet 4BSN-c-M	50
Dianil fast violet BL-n.c.-M	110
Diazanil black V-c-M	970
Diazanil blue 2R-M	100
Diazanil scarlet	2417
Diazanil scarlet 3BA-n.c.-M	
Diazanil scarlet 3BA conc-n.c.-M	
Diazanil scarlet 4BA-n.c.-M	
Diazanil scarlet 6BA-n.c.-M	
Diazo brilliant green 3G-n.c.-By	24
Diazo brilliant orange 5G-n.c.-By	100
Diazo brilliant scarlet	5035
Diazo brilliant scarlet B extra-n.c.-By	
Diazo brilliant scarlet 3BA extra-n.c.-By	
Diazo brilliant scarlet 6B extra-By	
Diazo brilliant scarlet 5BL-n.c.-By	
Diazo brilliant scarlet G extra-n.c.-By	
Diazo fast blue 4RW-I	220
Diazo fast yellow G-n.c.-By	100
Diazo indigo blue 4GL extra-n.c.-By	250
Diazophenyl black V-c-G	2203
Diazo rubine B-n.c.-By	1251
Diazo sky blue B-n.c.-By	6334
Diazo yellow R-n.c.-By	100
Direct fast orange K-n.c.-I	582
Eriochrome flavine A conc.-c-G	741
Nitranyl brown	330
Nitranyl brown B-I	
Nitranyl brown R-I	
Nitranyl brown S-I	
Nitranyl green B-I	110
Pluto brown 2G-n.c.-By	100
Plutoform Black BL-n.c.-By	24

Unclassified Mordant and Chrome Dyes	
Acid Alizarin Grey G-n.c.-M	2432
Alizarin blue S pdr-n.c.-By	330
Alizarin Bordeaux 2C paste-n.c.-By	135
Anthracene blue SWB pdr-n.c.-B	115
Anthracene chromate brown EB-c-C	1110
Brilliant chromoxaine blue G-O	220
Chromazine red new conc. 540-n.c.-G	1103
Chrome brown R-n.c.-G	55
Chrome violet	220
Chrome violet CBD-DH	
Chrome violet CG-n.c.-DHL	
Erio blue AB-n.c.-G	7804
Lanasol brown 2R-n.c.-I	441
Milling yellow 3G-n.c.-A	100

Unclassified Vat Dyes	
Algol brown G paste-n.c.-Q	220
Anthra pink B extra paste-n.c.-B	55

Dye & Maker		Pounds
Cibanone brown R paste-I		1543
Helindone Bordeaux B extra paste-n.c.-Q		440
Telindone Golden Orange (single stgh.)		1155
Telindone golden orange DIG pdr-Q		
Helindone golden orange IG-n.c.-Q		
Telindone golden orange IRRT-n.c.-Q		
Helindone golden orange IRRT pdr-n.c.-M		
Heliotrope R (single strength-n.c.-B)		44
Helindone pink R extra paste-n.c.-Q		110
Hydron Bordeaux B dbl. paste-n.c.-C		1200
Hydron Olive GN paste-n.c.-C		200
Hydron orange R paste-n.c.-C		619
Hydron pink		6528
Hydron pink FF paste-n.c.-Q		
Hydron pink FB paste-n.c.-Q		
Hydron scarlet 2B (single strength)-n.c.-C		3628
Indanthrene blue BCS pdr. (single strength)-c-B		375
Indanthrene brown R (single strength)		9087
Indanthrene brown R pdr-n.c.-B		
Indanthrene brown R paste-n.c.-By		
Indanthrene scarlet GS pdr. (sin. stgh.)-n.c.-Q		2032
Indanthrene violet BN extra paste-n.c.-Q		110
This indigo pink RN extra paste-n.c.-K		445

Unclassified Sulphur Dyes	
Thiogene Violet V-M	100

Unclassified Color Lake Dyes	
Brilliant Lake Blue G extra-By	127

Unidentified, Unclassified Dyes	
Formal fast Black G conc-n.c.-G	110
Fur brown SO-n.c.-A	150
Japan Black extra-n.c.-B	220
All other aniline colors	27
Radio Brown B standard-n.c.-C	10
Radio Red G standard-n.c.-C	10

Synthetic Aromatic Chemicals of Coal-Tar Origin	
Imported for Consumption during June, 1922	
Amyl Salicylate	8
Acetate of Cyclohexanol	21-5
Anisaldehyde (Aubepine)	106
Benzyl Alcohol Extra	35
Benzyl Benzoate	677
Benzyl Acetate	220
Benzyl Propionate	22
Beta Naphthol Methyl Ether (Yara Yara)	15
Coumarin	102
Ethyl Benzoate	7
Indol	21-5

Dye & Maker		Pounds
Heliotrope		25
Methyl Acetophenone		10
Musk Ambrette		675
Musk Ambrette residue		1125
Musk Ketone		236
Musk Xylene		242
Methyl Anthranilate		275
Methyl Ethyl Anthranilate		15
Para Cresol Isobutyl Ether		1
Methyl Para Cresol		414
Phthalic Ether		100
Phenyl Acetic Acid		295
Phenyl Acetaldehyde		774
Phenyl Ethyl Acetate		25
Phenyl Ethyl Alcohol		1306
Phenyl Ethyl Butyrate		11
Phenyl Ethyl Formate		13
Phenyl Ethyl Propionate		15
Phenyl Propyl Alcohol		32
Phenyl Propyl Acetate		1/2

Medicinal, Photographic Developers and Other Coal-Tar Chemicals

Acid Phenyl Cinchoninic	195
Sulphonilic Acid Anhydrous C.P. (gms.)	2050
Alizarin Sodium Sulfonate (gms.)	100
Antipyrine	1326
Amidopyrine	991
Benzole Acid	100
Beta Methyl Anthraquinone	477
Cresylic Acid	188,630
Cresylic Acid (gals.)	436
Colchicine Salicylate (oz.)	5
Developer B	99
Developer Z	201
Dimethylaminoazobenzene	10
Durazol	79
Epinephrine (ozs.)	254
Epinephrine Hydrochloride	25
Eserine (ozs.)	1
Quaalac	1102
Quaalac Carbonate	903
Katanol	2205
Para monochlorophenol (oz.)	8
Naphthol AS	17
Naphthylamine Acetate (oz.)	25
Nitrobenzene	13,029
Para nitrotoluene	8
Para nitraniline (gms.)	700
Phenyl hydrazine hydrochloride (gms.)	1025
Pilocarpine Salicylate (oz.)	20
Pyrazolon Phenylidimethyl	220
Resorcinol Tech.	600
Rodinal	100
Rosaniline Hydrochloride (gms.)	50
Rosaniline Sulfate (gms.)	72
Sodium Salicylate	3
Theobromine & Sodium Benzoate	3
Tricresyl phosphate	550

The Oil Market

Current Spot Quotations of Oils, Tallow, Greases, page 180

BUYING STRENGTHENS OLIVE OIL FOOTS

Soap Maker Nearly Cleans Out Market—Vegetable and Animal Oils Continue Weak—Little Buying in Menhaden Oil—Stearic Acid Lower—Turpentine Firm

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Olive Oil Foots, 1/2 lb.	Linseed Oil, imp., 5c gal.
Declined	
Cod Oil, 2c gal.	Palm Kernel Oil, 1/2 lb.
Corn Oil, crude, 1/2 lb.	Soya Bean Oil, crude, spot, 1/2 lb.
Greases, 1/2c@1/4c lb.	Stearic Acid, T.P., 1/2 lb.
Lard Oil, Ed. prime, 1/2 lb.	Tallow Oil, acidless, 1/2c@1/4c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Cod Oil, N. F.....gal.	\$58	\$70	\$70	\$56	\$1.26	\$36 1/2
Degras, American, bbl..lb.	.04	.04	.04 1/2	.04	.25	.03 1/2
Lard, No. 1.....gal.	.79	.79	.85	.73	2.90	.92
Menhaden, crd., bbls.gal.	.48	.48	.50	.33	1.20	.33
Neatsfoot, 20 deg. c.t.gal.	1.25	1.25	1.25	1.50	3.45	.95
Red Oil, distilled.....lb.	.09 1/2	.09 1/2	.09 1/2	.08 1/2	.17	.07
Stearic Acid, T.P.....lb.	.14 1/2	.14 1/2	.14 1/2	.10 1/2	.33	.12
Coconut, Ceylon, bbls..lb.	.09 1/2	.09 1/2	.10 1/2	.08 1/2	.90	.14
Cottonseed, crude, tks..lb.	.10	.10	.10	.07	.25	.08
Linseed, carlots.....gal.	1.05	1.05	1.12	.88	1.88	.57
Olive, denatured.....gal.	1.10	1.10	1.17	1.12	4.50	1.05
Peanut, refined.....lb.	.16	.16	.16 1/2	.13 1/2	.30	.08
Soya Bean, bbls.....lb.	.42	.42	.43 1/2	.42 1/2	.19 1/2	.07
Average	0.468	0.473	0.484	0.473	1.30	0.362

Business in vegetable and animal oils continues along the same quiet lines which have characterized the market during the past month. Buyers are holding aloof and only taking supplies as actually required. Even at lower prices there has been little interest shown. Sellers declare that prices are now scraping bottom and that a reaction is looked for in the near future. One large consumer entered the market last week and took all available supplies of olive oil foots at low prices. This seems to indicate that consumers are running very close on supplies. A strengthening of the market in olive oil foots immediately followed. Linseed oil has been showing little activity though crushers are busy on previously placed contracts. Imported oil has been coming in freely and prices have become easy. Chinawood oil offerings are small in the primary market and prices remain firm at recent levels. Corn and soya bean oils are quiet and lower in price. Makers of red oil and stearic acid have reduced their prices due to the easier position of raw materials. Menhaden oil is not moving well. Buyers are refusing to purchase at present prices and stocks are beginning to accumulate. Cod oil is lower due to lack of buying though stocks are somewhat limited. Turpentine and rosin have remained steady.

Vegetable Oils

Castor Oil—Crushers report a routine demand while supplies are adequate. Prices are holding steady at 14 1/2c@15c lb. for No. 1 and 14c@14 1/2c lb. for No. 3.

Chinawood Oil—Offerings in China and local markets are reported light but there has been little interest shown on the part of buyers. What little business is passing is on the basis of 24c lb. in bbls., spot, and 23c in tanks. Futures in cooperage, China, named at 23 1/2c@24c lb. At the coast, Aug. forward, 22 1/2c@23c lb. Imports of 1170 casks and 1500 bbls. last week at New York are reported.

Coconut Oil—Consumers continue to buy conservatively though offerings are reported less plentiful. Prices

are holding fairly steady in oil while copra is easier. On spot Ceylon in tanks held at 8 1/4c lb. and in barrels at 9 1/2c lb. Cochin, 9 1/4c@9 1/2c lb. tanks, spot, and bbls., 10 1/2c@11c lb.; Manila on spot at 10c@10 1/4c lb. and at the coast at 8c lb.

Corn Oil—Crude has eased off on lack of buying interest and is down to 7 3/4c@8c lb. at mills in tanks, and 10c@10 1/4c lb. on spot in barrels; refined at 12 1/2c@12 3/4c lb., spot.

Cottonseed Oil—Bearish factors in continued reports of a large cotton crop and weakness in vegetable oils and fats are keeping prices down. Buying has been limited and confined to shorts. P.S.Y. opened this week with July at 10.00@10.08; Aug., 10.10@10.65; Sept., 10.05@10.18; Oct., 9.20@9.30; Nov., 8.50@8.70; Dec., 8.45@8.55; Jan., 8.45@8.56; Feb., 8.50@8.60. Interest in September position. Refined oils at 10 1/4c@10 1/2c lb. Crude oil is nominal.

Linseed Oil—Prices are inclined to be soft due to the little interest shown and lack of buying. Consumers are taking contract deliveries but are not purchasing ahead, believing lower prices will be in effect soon. The report of a large domestic crop estimated at 18,000,000 bushels has had a bearish effect. Crushers are naming \$1.05 in carlots, cooperage, but the price is subject to shading. Imported oil is offered freely at \$1.00@1.03 in barrels. Imports last week at New York were 1,600 tons and 250 barrels. London linseed oil, 43/6; Antwerp, 382f per 100 kilos. Flaxseed prices opened the week with July Winnipeg at \$2.15; Oct., \$1.91; Duluth, cash, \$2.63; July, \$2.61; Sept., \$2.30; Oct., \$2.22.

Olive Oil—The entrance of a large soap maker in the market cleaned up all cheap lots of olive oil foots, amounting to about 2,000 barrels, and prices rose to 8 3/4c@8 1/2c lb., spot; shipment, 8 1/2c@8 3/4c lb. Denatured is moving quietly at \$1.10@1.15 per gallon; edible, \$1.70@2.00 per gallon.

Soya Bean Oil—Crude oil is easy at 9c lb. in tanks on spot and barrels at 11 1/2c@12c lb. Buying reported slow and the position easy in sympathy with other oils.

Animal Oils

Greases—Choice white remained steady at 8 1/2c lb. while the lower grades declined; yellow, 5 3/4c lb.; brown, 5 1/2c lb.; house, 6c lb.

Lard Oil—Edible prime down to 14 1/4c lb. while other grades are stationary. Extra, 11 1/2c lb.; No. 1, extra, 11 1/2c lb.; No. 1, 10 1/2c lb.

Neatsfoot Oil—Routine buying at unchanged prices; 20° cold test, 16 3/4c lb.; 30° best, 15 1/4c@15 3/4c lb.; prime, 14 1/4c lb.

Oleo Oil—Prices steady in a quiet market. No. 1, 11 3/4c lb.; No. 2, 10 1/2c lb.

Red Oil—Continues easy with prices at 9 1/2c@10c lb. in carlots.

Stearic Acid—Makers have reduced triple pressed to 14 1/4c@14 3/4c lb. in sympathy with the situation in raw materials; double pressed, 13c@13 1/2c lb.; single pressed, 12 3/4c@13 1/4c lb.

Tallow—A firmer tendency with prices steady at 6 3/4c lb. for extra; edible, 7 3/4c@8c lb.

Fish Oils

Cod Oil—Demand has been slow and prices have

eased off to 66c@68c per gallon for Newfoundland in cooerage on spot. Stocks are moderate.

Menhaden Oil—Buyers are holding off because of the high prices asked by sellers and stocks have been accumulating. Operators are asking 48c@50c per gallon in sellers tanks, Baltimore. Fishing operations have been more fruitful in Chesapeake waters but Long Island yields have been small. Refined oils are held at 80c@82c per gallon.

Sperm Oil—Moving in a routine way at unchanged prices; 38° test, bleached at 99c per gallon, New York, and 45° test, 94c per gallon.

Naval Stores

Turpentine—Present demand is reported about even with receipts and prices are holding steady. The new crop is coming in steadily and is nearly half harvested. The French crop is reported late. Spirits in barrels ex-dy New York, 93c gallon; steam distilled, 91c.

Rosin—Fair interest has been manifested but prices are restricting business with buyers holding lower ideas. Prices are holding steady at \$5.85 for B grade; D to M, \$6.00; N, \$6.25; WG, \$6.50; WW, \$7.50.

WOOD OIL REACHES SAN FRANCISCO

Imports at San Francisco during the first week of July included the following: On steamer Vinita, from Manila, to order 2,990 bags copra meal, 1,114 bags copra cake in slabs and 6,112 bags hydraulic copra cake; from Cebu, to El Dorado Oil Works 1,835 tons copra and to order 5,824 tons copra and 3,957 sacks copra; from Bulan, to order 1,167 tons copra, and from Legaspi, to El Dorado Oil Works, 3,334 tons copra, and to order 1,744 tons copra. On steamer Cuba, from La Union, to J. B. Havre & Co., 109 bales henequin.

On steamer President Cleveland, from Hongkong, to order 200 drums wood oil, to the San Francisco Trading Co., 20 cases peanut oil; from Calcutta, to American Glue Co., 200 barrels glue stock; from Colombo, to W. R. Grace & Co., 50 bales cinnamon quills; from Messar, to Pacific Orient Co., 50 cases mace; from Shanghai, to Pacific Mail S. S. Co., 100 bags cinnamon; from Hankow, to order 2 lots China wood oil; from Kobe, to order 5 cases camphor.

On steamer Bondowoso, from Batavia, to Bank of California North America, 350 bags pepper; from Balik-pappan, to Shell Oil Co. of California, 2,960 bags wax; from Cebu, to order 500 tons copra, 500 bales maguey and 812 tons coconut oil; from Manila, to Miller & Lux, Inc., 6,435 bags copra cake.

On steamer Venezuela, from Manzanillo, to Otis, McAllister & Co., 600 cases turpentine, and to Victor Patron, 244 cases turpentine. On steamer Bochum, from Hamburg, to order 240 barrels chalk and 58 casks oxide of iron. On steamer Alaskan, from London, to order 249 bags cocoa, and from Hull, to Anglo & London Paris National Bank, 2,072,000 pounds linseed oil.

On steamer Craftsman, from Glasgow, to Balfour, Guthrie & Co., 200 casks sulfate of copper; from Liverpool, to order 3 casks oxide of iron, 100 bags soda ash, and 57 drums chloride of calcium. On the steamer Borgaa, from Christiana, to order 626 cases ferro-silicon.

Plant of Dosch Chemical Co., Louisville, Ky., was damaged to the extent of \$200,000, on July 11. Products used in making insecticides were destroyed, including large stocks of sulfur, Paris green, calcium arsenate and lead arsenate.

Varnish in over-heated kettles in Masury Paint and Varnish Co.'s plant, Brooklyn, N. Y., boiled over, Friday, July 13, and caused damage of \$5,000. Four employees were badly burned.

DAVID GAMBLE DEAD

David B. Gamble, former secretary of Procter & Gamble Co., soap manufacturers, Cincinnati, died at Pasadena, California, on July 16, at the age of 75.

He was the son of James Gamble, one of the founders of Procter & Gamble Co. and was born in Cincinnati and educated in the public schools there. Mr. Gamble had lived in Pasadena for fifteen years, devoting his time to church and philanthropic work. He was connected with several civic institutions in Cincinnati, and was a trustee of Occidental College, Los Angeles, Cal. He leaves a wife and three sons, Cecil, affiliated with the Procter & Gamble Co., and Sidney and Clarence, identified with research work.

The body will be taken to Cincinnati, following services at the Pasadena Presbyterian Church Wednesday afternoon.

Business Brevities

Exports of cannabis indica have been prohibited by Union of South Africa.

David Netter, of David Netter & Co., wholesale druggists, Philadelphia, died on July 9. He was 59 years old.

R. K. Walker, representative of Southern Dyestuffs Co., died at Charlotte, N. C., from pneumonia, in his 53rd year.

Independent Lubricating Co. will build a plant at Topeka, Kan., to make lubricating oils for the wholesale trade.

The working force of Sharp & Dohme, manufacturers of pharmaceuticals, Baltimore, represented by the Employees' Relief Association, will hold the annual excursion down the Bay to Tolchester on July 23. George Hoch and Charles Dietrich have charge of arrangements.

Caddo-DeSoto Cotton Oil Co., Shreveport, La., will rebuild the portion of its plant destroyed by fire. The new structure will be one-story, 60 x 325 ft., with adjoining works building, 80 x 200 ft. The plant will be equipped for an initial daily output of about 200 tons of cotton-seed material.

General Asphalt has received a cablegram from the company's representative in London reporting the execution of the agreement between the Royal Dutch Shell group and the Asphalt Co. under which the latter receives its one-eighth royalty on Venezuelan oil. The balance of the cash consideration, plus interest from Jan. 1, 1923, \$1,008,000, was paid to the company on signing.

Total production of new refined copper in 1922 was 1,359,000,000 pounds, an increase of 339,000,000 pounds over 1921, according to a report by U. S. Geological Survey. Stocks of refined copper Jan. 1, 1923, were 216,000,000 pounds compared with 459,000,000 Jan. 1, 1922, and 659,000,000 Jan. 1, 1921. Average price of 1,913,000,000 pounds of copper delivered in 1922 as reported to Geological Survey by selling agencies was 13.4665 cents a pound.

Baltimore fertilizer interests will be represented at a hearing to be held in New York, July 26, at the offices of the Trunk Line Association, to receive protests on a proposal to change the rates on fertilizer shipped from Baltimore, Philadelphia and New York to points in New York State. The announcement says that commodity rates are to be canceled and official classification rates substituted. Considerable fertilizer is shipped from Baltimore to the territory affected by the change.

The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 168

IMPORTED BROMIDES LOWER ON SPOT

Light Demand Although Stocks Are Reported Not Large—Menthol Lower Due to Competition—Dynamite Glycerin Firmer—Antipyrine Easier—Large Sale of Salicylic Acid Reported

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced		Declined	
Glycerin, Dynamite, 1/2 lb.		Bromides, Imp., 1 lb.	
Acid, Citric, Imp., 1/2 lb.		Ammonium, 2c lb.	
Acid, Tartaric, Imp., 1/4 lb.		Potassium, 1c lb.	
Antipyrine, 20c lb.		Sodium, 3c lb.	
Menthol, 25c lb.		Potassium Permanganate, 1/2 lb.	

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetanilid	\$32	\$32	\$32	\$30	\$2.00	\$2.20
Acid Citric, Import .....	.51	.51 1/2	.52	.44 1/2	1.25	.45
Caffeine, Alkaloid	3.65	3.75	3.75	3.75	18.00	3.65
Calomel, American	1.25	1.25	1.25	.94	3.43	.90
Camphor, Jap., ref. ....	.87	.87	.88	.80	3.55	.41
Iodine, Resublimed	4.55	4.65	4.55	4.20	5.00	3.75
Menthol	9.75	10.00	9.50	6.25	13.50	3.00
Potassium Bromide, Cryst. ....	.26	.26	.26	.23	4.30	.80
Quinine Sulfate, Imp. ....	.49	.50	.50	.50	.90	.25
Sodium Salicylate .....	.47	.47	.47	.32	4.25	.27
Strychnine Sulfate .....	.84	.84	.84	.76	2.05	.50
Average	2.36	2.39	2.35	1.68	5.92	1.56

A stationary market, both as to the movement of goods as well as prices, characterized the medicinal chemical situation during the past week. However, there has been a slight downward trend due not to slackening demand so much as to appearance on spot of goods that are entirely out of the season. During the early part of the current year, consumption of the majority of fine chemicals was exceptionally good, and some importers were of the opinion that demand would continue so for a long time to come. But when spring arrived, stocks in certain lines were heavy. As the season passed for these goods, holders made sacrifices to realize money, thereby causing depression to a greater degree than would happen naturally during the slow summer months. These prices, moving downward, have naturally carried others with them. Aside from this condition in the market, the situation is not unusual for this season of the year. Competition is keen in menthol. Cream tartar is firm for shipment. Formaldehyde stocks are heavy. Salicylic acid sales reported large.

Acetophenone—In small demand at the moment at \$4.00@4.25lb. spot.

Acid, Acetylsalicylic—Makers report competition keen at 85c@90c/lb. spot as to seller. Demand weak. Lots of resales available at 83c/lb. spot.

Acid, Citric—Imported lower at 51c@52c/lb. spot with shipment quoted at same price. Consumption thus far has been reported not equal to this time last season. A firmer market is expected providing the hot spell continues. Exports from Italy to United States for 1922 were 555 tons, valued at \$455,122, compared with 211 tons, valued at \$172,715 in 1921. Domestic makers unchanged at 49c/lb. spot with deliveries being made only to regular customers. This year's production of citrate of lime is estimated to be 7,500 to 8,000 tons. Reports are heard that England is buying heavily of citric from America.

Acid, Salicylic—Makers are unchanged at 40c@45c/lb.

spot as to seller. Resales are being quoted freely at 38c/lb. spot with possibility of shading this figure as some holders are anxious to realize on investment. Reports are heard that one-half of the foreign inquiry has been filled. A sale of outside material was reported made last week amounting to \$13,000.

Acid, Tartaric—Has eased off under pressure and now quoted at 34 1/4c@35c/lb. spot. Shipment is said to be named at 29 1/4c/lb. c.i.f. New York with position in Europe strong as little goods are coming out of the Ruhr. During 1922 50 tons, valued at \$20,326 were exported from Italy to United States, compared with 76 tons in 1921, valued at \$41,432. Recent London cables state higher market there.

Alcohol—Demand in this item is strong especially in No. 1 special denatured at 38c@40c/gal. spot in drums, No. 5 completely denatured at 37c@39c/gal. spot in drums, and No. 6 completely denatured at 36c@38c/gal. spot in drums. One maker reports that while molasses may be obtained at the moment at 7c/gal., he did not consider 8c raw material unlikely in the near future.

Aloin—Unchanged and quiet at 87c@90c/lb. spot as to quantity.

Amidopyrine—Market easy at \$5.00@5.25lb. spot owing to weak holders wanting to turn over material. Market abroad is firm and little stocks are said to be available.

Antipyrine—Has eased off and now quoted at \$2.80 @ \$3.25lb. spot as to holder. One dealer reports that he will not shade \$3.25lb. Weak holders are depressing the spot market.

Bromides—All imported stocks have eased off owing to light demand and weak holders, as spot goods are said not to be heavy. Ammonium at 17c@19c/lb., potassium at 17c@18c/lb., and sodium at 18c@19c/lb. spot. Domestic quiet and unchanged at 33c for ammonium, 26c for potassium, and 25c/lb. spot for sodium.

Bay Rum—Porto Rican denatured with salicylic acid has eased off and now quoted at \$3.00@3.05gal. spot.

Camphor—Reported in good supply at 87c@88c/lb. for 2 1/2lb. Japanese slabs. Domestic makers unchanged at 96c/lb. for barrels.

Chloroform—Unchanged at 35c/lb. for 50lb. drums and second hands at 31c for 650lb. drums.

Codliver Oil—Market flurry appears to have subsided. Quoted on spot at \$25@26bbl. for Norwegian oil, and \$23.50bbl. for shipment. Recent London cables quote easier market there.

Cream Tartar—Has firmed up though unchanged at 25c@25 1/2c/lb. spot for imported with possibility of an advance of one cent pound in near future. Domestic unchanged at 26 1/2c/lb. spot. Exports from Italy to United States in 1922 were 135 tons, valued at \$75,045, compared with 44 tons, valued at \$171,362 in 1921. There is practically no tartar exported this year from Italy owing to closing of factories.

Epsom Salt—Imported unchanged and in good supply at \$1.75@2.00 per 100lbs. in barrels.

Formaldehyde—Demand weak and stocks accumulating at 14 1/2c/lb. bbls. cl. works.

Glycerin—C. P. easy at 16c@16 1/2c/lb. for drums. Dynamite quoted firmer at 15 1/4c@15 3/4c/lb. for drums with

possibility of doing 14½c/lb. on four cars or over. Last week two sales were made at 15c/lb.

Hydroquinone—Makers are quoting \$1.25@\$1.35/lb. for kegs, and tend to hold prices firm thereat.

Menthol—Market is quoted lower though firm at \$9.75@\$10.00/lb. for cases as to seller due to competition between dealers. Stocks on spot are said not to be heavy. During past week 15 cases were entered at New York. Potential demand is reported good as few large buyers have been in market thus far.

Mercury—Easy at \$66@\$67 flask with possibility of shading this figure on firm orders. Recent cables from London state easier market there.

Papain—Lower at \$1.85@\$2.00/lb. as to quantity.

Petrolatum—Easier at 12½c@13c/lb. for snow white in barrels.

Podophyllin—Has firmed up and now quoted at \$5.25@\$5.50/lb. spot. Resales, if procurable, are quoted at \$5.00/lb. spot.

Potash Permanganate—Lower at 16½c@18½c/lb. spot as to seller owing to accumulation of stocks and weak demand.

Resorcinol—Unchanged at \$2.25@\$2.35/lb. spot as to quantity.

Saccharin—Firm and in good demand at \$1.90@\$2.00/lb. as to quantity.

CONCANNON HEADS CHEMICAL DIVISION

C. C. Concannon has been appointed chief of the Chemical Division, Department of Commerce. He was named as assistant after C. R. DeLong was transferred to the U. S. Tariff Commission. Mr. Concannon was formerly an assistant instructor in chemistry in Boston evening high schools, and later was connected with Brewer & Co., Worcester, Mass., as laboratory chemist, salesman and assistant manager of potato starch factory in Maine. In the Takamine organization Mr. Concannon served from 1916 to 1921 at various times as clerk, salesman, director, in charge of the New York office and in an advisory capacity at the Tokyo office. In 1921 and 1922, for a time, he was connected with the Crystal Soap & Chemical Co. and the Adams Express Co.

The program of the American Chemical Society for the meeting at Milwaukee, Wis., during the week of Sept. 10, includes meetings of the various divisions devoted to dyes, leather, rubber, and fertilizers. The Leather Division will have a symposium on glue and glycerin. Headquarters of the Society will be at Hotel Pfister, where members will register. A rate of one and one half fare for the round trip has been granted by the railroads.

The Alcohol Trade Advisory Committee held conferences with Revenue Commissioner Blair and officers of the Prohibition Unit in Washington, last week, and discussed Regulations No. 60, offering suggestions for improvement which will be considered by the Commissioner before the Regulations are finally revised. The revisions will affect the drug, medicinal chemical, perfumery, and flavoring extract industries.

Lehn & Fink, Inc., manufacturing chemists and wholesale druggists, New York, will hold the third annual salesmen's convention Aug. 7 to 9 in the Lehn & Fink office.

H. D. Shea, of Shea Brothers, chemical brokers, 1 Liberty st., New York, has gone to the Pacific Coast, on a business trip.

CHEMICAL MANUFACTURERS HOLD OUTING

Attendance at the annual outing of Synthetic Organic Chemical Manufacturers Association, at Wyandotte Inn, Belleport, L. I., on Thursday and Friday, included about 45 members, who left New York in a special car. Short business meetings were held and the rest of the time was devoted to tennis, swimming, sailing and golfing. Seventeen golf scores were turned in, and prizes awarded as follows: F. M. Fargo, Calco Chemical Co., low gross, score 89; prize silver flask. F. J. Signer, Butterworth-Judson Corp., score, net 74, handicap 20; prize, leather billfold; F. W. Pickard, E. I. du Pont de Nemours & Co., who won a bridge set in the kickers' handicap, with score 70 and handicap 31.

Among the members present were: R. S. Rigney, Roessler & Hasslacher Chemical Co.; T. W. Sill, E. C. Klipstein & Co.; W. F. Van Riper, E. I. du Pont de Nemours & Co.; W. S. Weeks, Calco Chemical Co.; S. W. Wilder, Merrimac Chemical Co.; F. G. Zinsser, Wm. Zinsser & Co.; H. B. Brown, Southern Dyestuffs Co.; R. P. Dunning, DRUG & CHEMICAL MARKETS; E. H. Klipstein, of E. C. Klipstein & Sons Co.; M. Kutz, Roessler & Hasslacher Chemical Co.; Alvah H. Pierce, Grasselli Chemical Co.; L. A. Pratt, Merrimac Chemical Co.; Dr. Charles H. Herty; Dr. F. P. Summers, and D. F. Stewart, Noil Chemical & Color Co.; Dr. A. D. Chambers, and J. Warren Kinsman, of E. I. du Pont de Nemours & Co.; Dr. M. Muehler, Rhodia Chemical Co.; Mr. Hyde, Essex Aniline Works; C. K. Simon, Dyer Products & Chemical Co.; W. F. Harrington, E. I. du Pont de Nemours & Co.; W. A. Bridgeman, Wilbur White Chemical Co., and Innis Speiden & Co.

SOLVING RETURNABLE PACKAGE PROBLEM

Work on the problem of standardization of trade practices with regard to returnable packages is progressing satisfactorily, according to T. W. Sill, chairman of the Chemical Salesmen's Association Committee. Much interest has been manifested in this problem and many replies to the questionnaires sent to various concerns have been received. Several more returns are expected before the committee will be able to make its report which is expected about the middle of August. All who are interested in this problem and who have not received a questionnaire are urged to communicate with T. W. Sill, chairman of the committee, care of E. C. Klipstein & Co., 644 Greenwich st., New York.

COL. METZ DEFENDS HIS PRODUCTS

When asked to make a statement concerning the charges made by Mr. Kresel, at the trial of the Chemical Foundation suit, at Wilmington, Col. Metz said in part: "The production of salvarsan has nothing whatever to do with the trial, but this action of introducing these letters is a part of the propaganda Mr. Garvan and the Chemical Foundation are handing out to discredit my activities. Cases were reported in camps where deleterious effects followed the use of arsphenamine, and in each case the name salvarsan—the name of my product—was brought in. When investigated, it was found that it was not my product at all that had produced these effects."

Eastman Kodak Co., Rochester, N. Y., recently gave \$1,700,000 to its 15,000 employees under the wage dividend plan. Stock dividends amounting to \$4,500,000 were also distributed. The wage awards are based on 13 per cent of the five years' pay of each employee.

Exports of coal-tar medicinals have shown a fairly steady decline during 1923, having dropped from \$19,325 in January to \$9,937 in April and \$4,493 in May.

The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 182

CINCHONA HIGHER AND GENTIAN LOWER

Owing to Scarcity and Keen Competition, Respectively
—Cloves Lower—Balsam Tolu Advanced—Insect
Powder Demand Light—Golden Seal Quoted Nominally—Domestic Gatherings Reported Light

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

		Advanced		Declined	
Aconite Leaves, 5c lb.		Belladonna Leaves, 1c lb.		Ergot, 1c lb.	
Aletris Root, 3c lb.		Cinchona Bark, Broken, 1c lb.		Gentian Root, 1/4c lb.	
Anise Seed, Spanish, 1c lb.		Dandelion Root, 1c lb.		Henna Leaves, 2c lb.	
Arabic Gum, Amber Sorts, 1/2c lb.		Hellebore Root, White, Pd., 1c lb.		Insect Powder, 3c lb.	
Balsam, Tolu, 10c lb.		Senna, Alex., Siftings, 1c lb.			
Burdock Root, 2c lb.					
Caraway Seed, 1c lb.					
Cloves, Zanzibar, 1c lb.					

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aconite Root, U.S.P.	\$3.38	\$3.38	\$3.38	\$2.1	\$9.0	\$1.2
Buchu Leaves, Short	.90	.95	.95	1.05	4.00	.85
Cantharides, Russian	1.75	1.75	1.75	4.00	9.00	2.10
Cocculus Indicus	.03 1/2	.03 1/2	.03 1/2	.04	.85	.03
Ergot, Spanish	.51	.52	.52	1.05	4.50	.54
Insect Powder, pure	.60	.60	.65	.63	1.00	.28
Ipecac, Cartagena, powd.	1.90	1.90	1.90	1.80	4.50	1.35
Nux Vomica	.06 1/2	.06 1/2	.06 1/2	.06	1.45	.07
Opium, gum	8.00	8.00	8.00	6.00	30.00	5.00
Rhubarb Root, H. D.	.43	.43	.43	.55	1.75	.15
Tragacanth, No. 1, ribbon	1.50	1.52	1.52	1.75	6.00	1.50
Wild Cherry Bk., thin nat.	.10	.10 1/2	.10 1/2	.09	.21	.07
Average	1.35	1.35	1.36	1.43	5.28	1.00

Interest on spot appears to be centered on the small quantities of American botanicals that are coming into the gathering districts of the South. Business during the past week was quiet, thereby giving ample time to consider the prospective effect on the market in the Fall. Some quarters are of the opinion that the gatherers have banded together in order to hold up prices so that they can cover up some lean years. This is shown by two different gatherers quoting the same prices on a number of items, and also not caring to push sales to any extent. Others think that the cotton mills and the newly built railroads have recruited the roving labor of the South in such large quantities that none remain to gather the roots and herbs. They probably figure that steady employment is better than taking a chance on harvesting the right root or herb that may sell for a good price three or four months from now. In previous years thousands of pounds of crude drugs were brought into the warehouses, now only a bag of this root and perhaps two bags of that herb are received. Just what effect this condition will have on spot remains to be seen, when demand again commences to operate. The same sort of conditions are reported in the foreign drug producing countries as in the South.

Aconite Leaves—Has advanced and now quoted at 25c@27c lb. spot.

Agar Agar—Spot position is unchanged but shipment is firm and from some reports said to be equal to spot. Quoted at \$1.45 lb. spot for No. 1, and \$1.30 lb. for No. 3.

Aletris Root—Has firmed up and now quoted at 52c@57c lb. spot.

Anise Seed—Spanish has advanced on spot and now quoted at 27c@27 1/2c lb. inside with shipments named easier at 25 1/2c@26 1/2c lb. Star unchanged at 12 1/2c@13c lb. spot.

Arabic Gum—Amber sorts generally quoted higher at 14 1/2c@14 3/4c lb. spot with possibility of limited quantities being obtained at 14 1/4c lb. spot.

Balsams—Canadian Fir quoted firm at \$13.00@\$14.00 gal. spot. Oregon Fir named easy at \$3.25@\$3.40 gal. spot. Peru unchanged at \$1.75@\$1.80 lb. spot. Tolu has advanced again due to scarcity in primary market, and now quoted at \$1.35@\$1.50 lb. spot with some houses asking maximum as inside.

Buchu Leaves—Quoted at 90c@95c lb. spot as to quantity and holder. One house thought that they would firm up in the near future, while another said there was too much stock on spot and there were too many weak holders to make any appreciable advance at the moment.

Caraway Seed—Dutch has declined and now quoted at 20c@20 1/2c lb. spot owing to slightly heavy carry-over as well as larger crop for 1923 compared with 1922.

Cardamom Seed—All grades are firm and inquiries reported active. Bleached quoted at \$1.20@\$1.70 lb. spot as to quality. Decorticated at \$1.05@\$1.15 lb. spot with some houses holding to \$1.10 lb. inside.

Cascara Sagrada—Firm and unchanged at 15c@16c lb. spot for 1920 peel as to seller. Reports come from Northwest that position is unsettled due to scarcity of labor.

Cloves—Zanzibar lower though firm at 29 1/2c@30c lb. spot. New crop is estimated at 45,000 bales up to 175,000, against a normal crop of 150,000 bales.

Dandelion Root—Has advanced and now quoted at 16c@17c lb. spot with practically no possibility of replacement.

Gentian Root—Lower though firm at 8 1/2c@9c lb. spot due to keen competition.

Golden Seal Root—Spot is quoted nominally at \$3.50 @\$3.55 lb. with new arrivals coming on the market in a few days.

Insect Powder—Lower at 57c@60c lb. as to seller owing to weakening interest, and desire of holders to turn over their investment.

Mandrake Root—Has firmed up and now quoted at 18c@19c lb. spot.

Opium—Unchanged at \$8.00 lb. spot for gum and \$9.00 lb. for powdered. Production in Japan for 1921 was 1,314 kwamme (1 kwamme equals 8.28 pounds), valued at 267,378 yen.

Sarsaparilla Root—Mexican firm and unchanged at 32c@33c lb. spot, and Honduras quoted at 61c@65c lb. spot.

Senna—Siftings higher at 11c@12c lb. spot.

Vanilla Beans—Market is said to be strong, but supplies are considered ample in face of limited amount of inquiries. Mexican whole quoted at \$8.50@\$11.00 lb. spot, and cuts at \$6.00@\$6.50 lb. spot. During past week 47 cases were entered at New York. Bourbon unchanged at \$4.50@\$4.75 lb. spot with offerings in primary market still being made equal to spot.

WHY MISTAKES HAPPEN IN SHIPPING DRUGS

The thousands of products handled by wholesale druggists make the possibility of mistakes in shipments very probable, but the infinite detail of the business can be better understood from the following statement by Charles W. Whittlesey, wholesale druggist:

We will call it a "take" whenever we write down an order, put it through correctly and deliver the goods properly to the customer. Likewise we will call it a "mistake" when we go through the same motions but do not land the goods correctly and properly with the customer. We handle in the store each day 2,600 items. That is, there are that number of lines on the orders which amounts to 67,600 items per month. This would look like 67,600 opportunities for an error to creep in. BUT! What happens to each one of these "takes"? These things: salesman writes; clerk draws off for departments; department clerk to stock shelf; department clerk to carrier; called by checker; called back by examiner; put in box by examiner; packed by packer; packed by pricer; extended by bill clerk; typed by bill clerk; footed by bill clerk; examined by auditor.

All of these thirteen things have to be done to each item so the possibilities of error are multiplied up to 878,800 for the month of 26 working days. But this is not all. The following operations are performed in regard to each order or invoice taken as a group of items: entry clerk registers; shipper marks box; shipper takes shipping receipt; mailed by clerk; posted to ledger; transferred to statement; statement mailed.

VANILLA BEAN CROP FROM VERA CRUZ

(Continued from page 146)

cy. per hectare. The yearly upkeep is about \$25.00 Mex. cy. per hectare. Beans are ready for gathering three years after planting, the life of a plantation is about 20 years. A hectare will produce from 15 to 20 thousand green vanilla beans. One thousand green beans when cured produce about 10 pounds of the cured beans.

At first it would look like the growing of vanilla beans would be a very profitable business, which it would if it were not for the stealing of the green beans. All the planters that have tried to raise vanilla on a large scale have failed and lost money. It is impossible on a large plantation to have watchmen day and night to protect the crop from thieves. One planter fenced his property, and connected his fence with the electric power plant, having his fence highly charged with electricity, but the thieves would find a tree near the fence, cut it down, so that in falling it would break the wires of the fence and give them free entry to the plantation. The Indians grow the vanilla on small tracts, raising from 10 to 25 thousand beans, and at the same time plant corn, beans and peppers, which furnish them with food. The green vanilla beans give them enough money to buy clothes and the other necessities of life. Their acreage is small and can be fairly well protected.

A thief can soon cut a number of thousand vanilla beans and at the present price \$60.00 Am. cy., per thousand for the green beans, they soon run into money. Until some one can devise a way to protect the crop from robbers on the large plantations, vanilla can not be grown profitably in large quantities. The vanilla is also subject to blight and other diseases which the natives have not been able to stop. The present price asked by the curers for the cured vanilla is \$8.00 Am. cy. per pound; as the present crop is not so large as was first estimated earlier in the season, it is safe to assume that the selling price for the whole vanilla will be just as high this season as it was during the last.

SANTONIN CONCESSION CHANGES HANDS OWING TO SOVIET-SWISS POLITICS

F. Hoffmann-LaRoche & Co., Ltd., Basle, Loses Sole Selling Rights for Russian Factory—Year's Fight by Roche to Reduce Price Will Probably Succeed

(Special Cable to DRUG & CHEMICAL MARKETS)

Basle, Switzerland, July 16—The Soviet Government of Russia has severed connection with F. Hoffmann-LaRoche & Co., Ltd., as the sole selling agents for santonin produced by the Russian Government factory. The new agent has not been announced. As a result of a year's effort by the American branch of this company, the Soviet is expected to reduce prices materially in the near future.

The political situation in Russia and the recent assassination of the Soviet representative in Geneva are believed to have a direct bearing on the termination of the santonin contract by the Soviet Government, according to Elmer Bobst, general manager, Hoffmann-LaRoche Chemical Works, New York, American representatives of the Swiss company, when seen by a representative of DRUG & CHEMICAL MARKETS. The Hoffmann-LaRoche Chemical Works has acted as sole selling agent for santonin in the United States for the past two years. Realizing that the Soviet has been holding santonin prices too high, a fight to reduce the price has been waged for a year past by the American house, according to Mr. Bobst's confirmation of reports from Basle, and indications point to a contemplated substantial cut by the Soviet as a result of these efforts. There is believed to be no connection between the contract cancellation and the contemplated reduction in price as the Soviet has always controlled the price from Moscow. What company would secure the santonin sales concession in the future, Mr. Bobst was unable to state.

Net profits of Sterling Products, Inc., were \$2,250,000 for six months, after all deductions for charges and tax reserves, equal to \$3.75 a share on the 600,000 shares of stock. Last December the company offered 100,000 additional shares of stock at \$50 a share to stockholders and with the proceeds purchased Phillips' Milk of Magnesia organization. Use of this new money from sale of stock and earnings of Phillips organization were not available to Sterling Products until the second quarter of this year.

Foreign trade of the United States for the fiscal year ended June 30 resulted in a favorable trade balance of \$177,000,000 and for the month of June the balance in favor of the United States amounted to \$1,000,000, according to the trade reports for the month issued by the Department of Commerce.

United States Shipping Board steamer Clontarf, which arrived at Baltimore from Batoum, on the Black Sea, July 9, brought 200 bales of licorice root baled in 1917, before the Russian revolution, for the J. S. Young Co. of Baltimore. The licorice root was ready for shipment when Bolshevik rule began.

Dominican Republic has ratified the control of international trade in opium as laid down by the Hague convention of 1912, according to advices received by the Department of Commerce.

Hans Hinrichs Chemical Corp. has rented the basement of 30 Cliff st., New York, to E. J. Barry, drugs and chemicals, for a term of years.

The Essential Oil Market

Current Spot Quotations of Essential Oils, page 189, Aromatic Chemicals, page 190

OIL ORANGE EASIER FOR SHIPMENT

Although Spot Is Firm and Well Held—Oil Lemon Lower Owing to Exchange—Oil Cloves Advanced Again—Oil Fennel Easier—Citronella Reported Quoted at 3s 8d c.i.f.—Coumarin in Good Demand

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Oil Cloves, 10c lb.	
Declined	
Oil Fennel, 10c lb.	
Oil Lemon, Italian, 5c lb.	
Oil Orange, Italian, 19c lb.	

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot	\$2.55	\$2.60	\$2.60	\$3.00	\$7.00	\$5.00
Oil Citronella, Ceylon.....	.70	.70	.70	.85	.92	.60
Oil Cloves	2.30	2.10	1.85	1.75	3.70	1.40
Oil Lemon Italian.....	.75	.80	.77	.65	1.70	2.00
Oil Peppermint, Nat.....	2.65	2.65	2.65	1.95	9.00	2.25
Oil Sandalwood, E. I.....	7.65	7.70	7.75	7.00	13.00	5.25
Oil Sassafras, Artif. ....	.45	.45	.45	.45	1.00	.26
Benzaldehyde, U.S.P.	1.50	1.50	1.50	1.40	5.15	1.50
Coumarin	4.50	4.50	4.50	3.00	31.00	3.10
Methyl Salicylate, Cans...	.57	.57	.57	.37	1.00	.90
Vanillin .....	.41	.41	.41	.50	.95	.29
Average	2.18	2.18	2.15	1.88	6.83	2.05

Since March each succeeding month has averaged less volume of business transacted than the preceding one. Of course, during the past two or three weeks seasonable items have been in steady demand, but not to the extent that warrants the fullest confidence in the market, probably because of the late spring and also to the cautious attitude of buyers in general. Trading appears to have settled down in the trough of summer dullness. Shipment prices remain generally high, in fact, so high that in one instance the trade is of the opinion that the goods could not be sold in this market at a profit. When prices mount to too lofty levels, the consumer appears to have the knack of getting along without this item. Everyone is looking for larger orders in the Fall in spite of the prediction that things all along the line will take a slump. Part of the slowness at the moment can be laid to the increasing number of buyers as well as sellers taking their vacations at this time.

Essential Oils

Oil Angelica Root—Quiet and unchanged at \$38@ \$39lb. spot.

Oil Anise—Quoted easy at 45c@47½clb. spot for technical and 52½c@55clb. spot for U.S.P. with possibility of shading these figures on big business.

Oil Bergamot—Spot quoted firm at \$2.55@ \$2.65lb. for coppers with shipment named higher. Some houses are holding for \$2.75lb. spot. A sympathetic rise on spot is predicted as stocks here are said to be light.

Oil Caraway—Quoted in fair supply at \$7.00@ \$7.50lb. spot as time for new oil to come on market is fast approaching. However, stocks here are well held with demand at the moment light.

Oil Cardamom—Firm and in fair demand at \$20.00@ \$22.00lb. spot.

Oil Cassia—Although this item is being offered more freely the trade is cautious to place orders at this time due to the high price asked for shipment and also to general dullness of spot market. Quoted firm at \$3.00 @ \$3.10lb. spot with supplies limited.

Oil Citronella—The shorts are reported to have fully covered themselves without stirring up the spot market. Some firms are quoting 72clb. spot for drums, but good sized quantities are available at 70c@71clb. spot. One direction is reported asking as high as 80clb. spot. A lot of 13 tons for nearby arrival was reported to have been sold last week for 69clb. Reports are heard that shipment is named at 3s 8d lb. c.i.f. New York with possibility of doing 3s 3d. Java is quiet at 85c@87½clb. spot as to quantity.

Oil Lemon—Italian has declined and now quoted at 75c@90clb. spot as to quantity and seller owing to lower exchange and light demand. Stocks on spot appear to be heavy in respect to the small jobbing needs. American unchanged at 75c@80clb. spot as to quantity.

Oil Limes—Quoted firm at 85c@90clb. spot.

Oil Orange—Italian has eased off slightly at \$3.90@ \$4.50lb. spot owing to lower shipment being named. Position on spot is firm and supplies are reported to be concentrated into strong hands. Bitter quoted lower though firm at \$2.60@ \$2.70lb. spot. West Indian at \$2.75@ \$3.00lb. spot with some quarters holding at the higher figure as minimum.

Oil Peppermint—Spot position easy at \$2.65@ \$2.75lb. for natural, and \$2.90@ \$3.00lb. for redistilled. The country is attempting to advance shipment prices by circulating 'bullish' reports.

Oil Rose—A report from Bulgaria on June 30 states that the rose harvest for 1923 has been distilled. During the distillation of the petals, a strong southern wind prevailed, making the rose buds open prematurely, and thereby sapping, not a little, the perfume of the flowers. The yield of 52,875 ounces was about 25 per cent less than average. Part of this shortage is taken up by last year's carry-over. New rose quoted at \$7.00 per oz.

Oil Wormseed—Quoted firm at \$7.20@ \$7.25lb. spot with one direction in the trade having reported making a sale on spot at \$10.00lb.

Oil Wormwood—Unchanged though easier at \$6.50 @ \$6.75lb. spot.

Aromatic Chemicals

Amyl Acetate—Scarce and in good demand at \$7.00 @ \$8.00lb. spot.

Anisic Aldehyde—Quoted firm at \$3.75@ \$4.50lb. spot as to seller and quantity. The trade thinks that when the Court reviews the change in duty on this item, it will not be allowed to stand as now interpreted by the customs officials.

Coumarin—Makers report they are having difficulty in keeping ahead of orders. Quoted firm at \$4.50@ \$4.75lb. spot with limited resales at \$4.35lb.

Heliotropin—Domestic quoted at \$2.00@ \$2.25lb. spot and imported at \$2.50@ \$2.75lb. spot. Reports are heard that importers are meeting difficulty in selling this item as the duty is so high as to make the importation prohibitive. One holder is contemplating returning a lot held in bond at New York, as it cannot be sold at a profit.

Methyl Salicylate—Makers quote 55clb. spot for drums and 57clb. for cases with resale material available at 52c@53clb. spot.

FRENCH ESSENTIAL OILS ARE QUIET

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Marseilles, July 7.—The essential oil market continues very quiet. Quotations per kilo are:

	Francs
Aniseed, Tonkin	14@15
Aniseed, Chinese	15
Rosewood	75@77
Cananga, Java	63@65
Citronella, Java and Ceylon	25@29
Geranium, Bourbon	205
Clove	48@49
Palmarosa	140
Patchouli	190@230
Petit grain	50
Sandalwood	225
Gingergrass	58
Vetivert Bourbon	150@155
Ylang Ylang Bourbon, 1st quality	100@110
Ylang Ylang Bourbon 2nd quality ...	50@60
Cajuput Tonkin	17@18
Cannellier Seychelles	48

While Great Britain has been predominant in South African imports of perfumery and toilet preparations, says "Commerce Reports," indications are favorable that the United States may obtain its share of the trade. The British success, to a large extent, seems to be due to the systematic efforts which they have made to secure this trade by sending out direct representatives or by placing their agency in the hands of a reliable person to whom they give a liberal allowance of advertising material for the purpose of introducing their products and keeping them constantly before the public.

Ballots by mail are now being received by the managers of the Chemical Exposition in response to a recent questionnaire sent out to obtain the views of exhibitors regarding the frequency of holding expositions. Whether or not the Chemical Exposition, which will be held this year at the Grand Central Palace, New York, during the week of Sept. 17 to 22, shall be held every year or every other year, will be decided by the votes of exhibitors.

West End Chemical Co., which will erect a plant at Los Angeles, Cal., to manufacture borax, boric acid and allied products, will offer an issue of \$200,000 six per cent participating cumulative preferred stock to assist in financing the project.

Production of industrial alcohol in France, for the first five months of 1923, was 674,000 hectoliters, compared with 542,000 hectoliters for the same period of 1922. Stocks on hand are correspondingly greater.

Car loadings for week ending June 30, were 1,021,770 cars, which exceeds the former high record for the week ending Oct. 14, 1920. The increase was due to greater shipment of all commodities except coke.

Francois Coty, perfumery manufacturer, Paris, has been elected Senator from Corsica by a majority of six votes over Adolphe Landry, vice-president of the French Chamber of Deputies.

W. F. Fisher, sales manager for Magnus, Mabree & Reynard, essential oils, New York, has recently returned from a business trip through Canada.

Perfumery, Soap & Extract Association, of Chicago, held its annual outing at the Blue Heron, Glen View, Ill., on July 10.

HOOVER URGES STUDY OF STATISTICS

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 18.—Declaring that the trade association as a facility for the promotion and self-regulation of industry and commerce has become, by reason of its scope and activity, an important American business institution, with which the public generally speaking, is little acquainted, Herbert Hoover, Secretary of Commerce, in the introduction to that Department's new book entitled "Trade Association Activities," expresses the opinion that the constructive purposes of these organizations have unfortunately been confused with the minority of activities which have been used as a cloak for action against public interest.

On the subject of statistics, Secretary Hoover says, in part: "There is no question that the curves in the business cycle from activity to depression have been less disastrous in those industries or trades where accurate, lawful statistical data have been available to all. Fundamentally it is impossible for business men to form those vital judgments as to their future course of action in the wise and safe direction of their activities unless they are informed as to the changing currents of production and consumption, not only in their own lines but also in other lines of business, which indicate broader currents of economic life.

"Waste elimination, in a vast area of problems, can only be accomplished by collective action in a trade. Hundreds of millions of dollars have been saved through the adoption of principles laid down in such programs, not alone to the business groups concerned but to the ultimate consumer."

The Suchar Process Corp., 200 Fifth ave., New York, has been appointed distributor of the Industrial Chemical Co.'s new carbon, suchar, for application to sugar and syrups. The Suchar Process Corp. is represented by a group of experienced technical men familiar with all phases of the sugar and syrup refining industry, and are prepared to undertake building of plants and installation of refining processes applicable to all branches of the sugar, syrup and molasses industries. The President of the company is John J. Naugle, previously associated with important sugar interests here and abroad.

The Ruhr occupation continues to overshadow business in Europe, according to Frank J. McDonough, McKesson & Robbins, New York, who recently returned from abroad. Taxation and fear of the American debt has also tended to make business men in Europe conservative. As a whole, the business situation generally is running second to the political situation which holds the center of the stage, according to Mr. McDonough.

Dr. H. H. Rusby, Dean of College of Pharmacy, Columbia University, has written a letter to the "New York Times" protesting against the attitude of the public and of physicians who corrupt a class of pharmacists who do not keep faith with the Government which selected the druggists as the agents for the distribution of legitimate supplies of liquor.

Midland Carbon Co., Occidental Oil & Gas Co., and Wyoming Dehydrating Co. have withdrawn from Wyoming owing to the law prohibiting the manufacture of carbon black passed in 1919. The companies sold their product for use in printing inks and automobile tires.

C. C. Speiden, Innis, Speiden & Co., New York, sailed July 7, with his wife and children, for several months' tour of Europe.

The Foreign Markets

Imports of Drugs and Chemicals, page 183

TARTARIC ACID AND CASCARA HIGHER

London Market Easier for Codliver Oil, Quicksilver, Chillies, Italian Essences, Caustic Soda and Crude Camphor—Trading Takes on Holiday Dullness

(Special Cable to DRUG & CHEMICAL MARKETS)

London, July 18—Advances are announced this week on tartaric acid and cascara sagrada. The market tone is easier for codliver oil, quicksilver, chillies, Italian essences, caustic soda, and crude camphor. Trading is characterized by holiday dullness.

London, July 7, (By Mail)—Opium comes over firm from Smyrna owing to renewed orders for Japan. The London market is somewhat firmer. Stocks are dwindling and good druggists' quality is difficult to find. Agar Agar is dearer by 6d per lb. and may go higher. Codliver Oil is in better demand and buyers appear to have made up their mind that safe purchases may now be made for the later consuming period. The Finmarken reports are favorable as to the Southern catch of Cod and although the total production in the North and South exceeds last year's heavy figure, direct reports from Bergen show that unusually large quantities of crude oil have gone into consumption for industrial purposes and that consequently there will not be so large a quantity of refined medicinal quality made as might have been expected. Balsam Tolu has advanced to 5s 6d per lb. in sympathy with the market in New York.

NEW GERMAN POTASH PRICES FIXED

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Berlin, Germany, July 7.—The potash industry is very busy at present and all the works are fully employed again. Wages in the industry have been raised by 56 per cent and the new potash prices are about 64 per cent above those in force till June 25. A rebate of 5 per cent is granted on all orders placed up to July 10. The table gives the current inland prices in marks per 1 per cent K_2O in 100 kilos.

	K_2O	Marks
Carnallit	9% to 12%	1,057.19
Crude salts	12% to 15%	1,269.46
Fertilizer salts	18% to 22%	1,893.54
Fertilizer salts	28% to 32%	2,433.46
Fertilizer salts	38% to 42%	3,134.09
Potassium chloride	50% to 60%	3,421.31
Potassium chloride	More than 60%	4,085.60
Potassium sulfate	More than 42%	5,907.33
Potassium magnesia sulfate		6,506.67

When the depreciation in the German currency is considered, potash is cheaper now than in 1914, the price being only 16,000 times pre-war quotations. New prices for nitrate fertilizers are more than 50 per cent higher than prior to June 26, and sulfate of ammonia, muriate of ammonia, sulfate of ammonia saltpetre and potassium saltpetre are now quoted at 33,590 marks per one per cent nitrate per kilo. Demand for nitrate fertilizers continues, and the normal production has been maintained in unoccupied Germany.

Exportation of sulfate of ammonia from Tunis is now subject to license, according to a decree of May 15.

FOREIGN EXCHANGE

	Par	Current
Great Britain (pound sterling)	\$4.886	\$4.588
France (franc)	.193	.059
Italy (lira)	.193	.043
Germany (mark) per hundred	23.89	.0005
Czechoslovakia (crown) per hundred	20.30	.030
Poland (mark) per hundred	23.80	.0008
Japan (yen)	.499	.486
Spain (peseta)	.193	.141
Holland (guilder)	.402	.390
Belgium (franc)	.193	.049
Switzerland (franc)	.193	.174
Sweden (crown)	.268	.264
Denmark (crown)	.268	.174
Argentina (peso)	.424	.344
Brazil (milreis)	.279	.104
China (Silver dollar—Hongkong)	.789	.518
(Tael—Shanghai, silver)	1.082	.698
(Tael—Peking, silver)	1.156	.728

French metallurgical companies have agreed to take all the coke which the coal companies may produce in their cokeries at a basic price of 107 francs f.o.b. factory, this price to be varied according to the wage rates paid for labor and to be based on coke analyzing 82 to 84 per cent carbon. Metallurgical and coke manufacturing interests hope that from the stability of the market thus created in France coke production may show a very appreciable increase which will carry the totals well beyond those reached under pre-war conditions.

German dyestuffs amounting to 7,000 tons, valued at 200,000,000 to 300,000,000 francs, were seized by the French Government when they took over four chemical plants on May 15, according to Commercial Attache Jones at Paris. The amount due England, France, and Italy under reparations agreements will be reserved, and the balance sold and credited to reparations accounts.

Anthraquinone is exempted from import duty by a French decree of June 11, effecting a reclassification in the French tariff. Formerly this chemical was subject to a general duty of 1,200 francs, an intermediate duty (applying to the United States) of 600 francs, and the minimum duty of 300 francs, all per 100 kilos.

Chlorate of potash will be included in China's list of prohibited articles, the importation of which after June 1, 1923, can only be permitted under a permit issued by the Minister of War at Peking, according to a notification by the commissioner of Chinese maritime customs at Harbin.

Dresdner Bank report for the past year shows gross profit of 18,200,000,000 marks, net profit of 2,621,000,000 marks, dividend of 200 per cent against 16 per cent in 1921, and announces capital will be increased to 7,000,000,000 marks, larger than any other German bank.

Russian Central Executive Committee and Soviet of People's Commissars have established new excise taxes on matches, corn starch, sugar, syrup, saccharine, salt, naphtha products, alcohol, yeast, wax, and paraffin, according to Minister F. W. B. Coleman, Riga, Latvia.

Mond Nickel Co. reports £330,268 profits available for distribution for year ended April 30, £60,000 less than last year. Because income tax had already been provided for, company declared a final dividend of 1s 6d, against 1s a year ago.

Leather Chemicals

POTASSIUM BICHROMATE LOWER; IMPORTED SODIUM SULFIDE WEAK

Prussiates, Yellow Soda and Potash, Continue to Decline—Acids and Alkalis Remain Steady—Menhaden Oil Held for High Prices—Cod Oil Easier

With the exception of the heavy acids and alkalis, most of the list of leather chemicals have shown a tendency to decline in price. Tanning activities have been slow during the summer and there has been little call for tanning chemicals. As result of the lack of demand considerable competition has developed for the small business passing and prices have gradually yielded to the pressure. Buyers, however, are only buying for their immediate requirements. A strike in one of the large shoe centers has cut into shoe shipments and consequently causing a lessened demand for leather from the tanneries. Potassium bichromate has yielded further and makers are now quoting 10¼c/lb. Sodium bichromate continues at the recent decline but the amount of business is reported small. Prussiates are still weak, both the soda and the potash varieties being at lower levels. Domestic makers of prussiate of soda are maintaining their recent prices. Formaldehyde is accumulating and prices are tending lower. Imported sodium sulfide has been neglected and prices have slumped but still domestic material is holding up well both in prices and in demand. Extracts are subject to price shading here and there. Cod oil is selling at prices lower than recent levels.

Acid, Acetic—Makers report a steady consumption, though the volume of buying is not as large as has recently prevailed. Prices are unchanged with makers quoting the 28% at \$3.38@3.63 in bbls. at works; 56%, \$6.75@7.00; 70%, \$8.38@8.63; 80%, \$9.58@11.60; Glacial, \$12.78@13.53.

Arsenic—The red is in limited supply and prices are holding firm at 15c@15½c/lb. Present stocks are taking care of the lessened demand.

Bichromates—Demand has not been active during the past few weeks and makers are still inclined to reduce their prices in competition for business though production has been somewhat limited. Soda is unchanged at 8c@8¼c/lb. at works while potassium bichromate is down slightly to 10¼c@11c/lb.

Epsom Salt—Domestic material continues to be preferred over the imported even at higher prices. Makers report a steady demand with U.S.P. named at \$2.25 @ \$2.50 as to quantity. Imported at \$1.75@2.00.

Extracts—Lack of demand has kept the market quiet with only routine business passing. Prices have been fairly steady though here and there reductions are available. Chestnut is quiet at 2c@2½c/lb. for 25% and 5¼c@6c/lb. for 60%. Logwood named at 7c@12c/lb. as to seller and quality; hemlock, 25%, 3¼c@3½c/lb.; Myrobalans, 25%, 4c@5c/lb.; Osage Orange, 7c@8c/lb.; Quebracho 35%, 3¼c@4c/lb. in tanks, 4¼c/lb. bbls.; sumac held at 7c@9c/lb.

Formaldehyde—Lack of demand has been noticeable and stocks are beginning to accumulate in the market. Prices are easy at 14½c/lb. for carlots at works while resale prices are down to 14c/lb. spot.

Prussiates—Imported prussiates continue weak and prices have slumped still further. Yellow prussiate of potash is offered as low as 30c/lb. while quotations

range to 33c/lb. depending upon the seller. The red is holding at 65c@67c/lb. with little demand. Yellow prussiate of soda is at lower levels with a range 13c @14c/lb.

Sodas—Caustic is moving on contract while spot business is fair. A small export movement is in progress with prices at \$3.25@3.30. Spot prices range from \$3.20@3.70 depending upon the brand and quantity. Makers are steady at \$3.16½ for 76% solid at works, on contract. Soda ash is moving well and less subject to price cutting and competition. Spot in bags at \$2.00; bbls., \$2.25; contracts placed at \$1.45@1.50 for 58% light in bags at works.

Sodium Sulfide—Domestic material continues to move fairly well into consuming channels and prices are holding up well. Solid 60% is named at 4¼c@5¼c/lb. at works; broken, 5c@5¼c/lb.; flaked, 4¼c@5¼c/lb. crystals at 2½c/lb. Imported material is in little demand and prices are weak with solid at 3c@3½c/lb. and broken at 3¼c@3¾c/lb.; crystals, 2¼c@2½c/lb.

Titanium Potassium Oxalate—Moving in a routine way at 30c@32c/lb.

Cod Oil—Supplies are somewhat limited but demand has not been active. Prices are lower in some directions with the range from 66c@68c per gallon for Newfoundland.

Menhaden Oil—Crude oil is still being held at 48c @50c per gallon, Baltimore buyers are showing little interest at these prices and stocks are accumulating. Operations have been more successful and yields have been better than earlier in the season. Refined oils are held at 80c@82c per gallon.

To the leather manufacturer each kind of raw material brings its own separate and distinct problems and calls for different chemical and mechanical treatment. This treatment largely depends, also, on the purpose for which the finished product is intended. The tanner's success and prosperity depend upon his use of the best formula or manipulation to use in each case, that he may meet competition and retain goodwill. Dr. Allen Rogers has written a book on "Practical Tanning," which shows that he is in close touch with the latest discoveries made by scientific experimenters and practical tanners the world over. The book is intended primarily for those interested in the actual production of leather and deals with the subject from a practical rather than a theoretical standpoint. It is published by Henry Carey Baird & Co., New York.

OTHER TANNING AND LEATHER MATERIALS

For reports on chemicals, oils, tanning extracts, and other raw materials for the leather industries not reported on this page, see the general market reports on the thirteen preceding pages. For the current market quotations on chemicals and allied products, with specifications and packing, see price list beginning on fifth page toward the back of the book. Prices are for goods f.o.b. New York or works for prompt shipment unless otherwise specified. Read full explanation on first page of price quotations.

Paper Chemicals

PAPER CHEMICALS MOVING SLOWLY; BLEACHING POWDER UNSETTLED IN PRICE

Some Sellers Still Quote \$1.90 at Works—Imported Oxalic Acid Easy—Aluminum Sulfate Firm in Price—Casein Continues at Recent Low Level

Conditions in the market for paper chemicals have undergone little change in the past week. Paper mills are still operating at reduced capacity and are taking only minimum contract withdrawals while the amount of new business passing is reported small. Stocks are quite plentiful in the market but while there has been a change in a few items the list of paper chemicals as a whole is quite firm. Not all makers have followed the recent lower prices set by a leading producer though some are undoubtedly shading their quoted prices. Imports of bleach last week were only 75 cases. The total for ten months ending in April this year are reported to be 1,582,414 pounds against 16,957,371 pounds for the same period ending April, 1922. Casein is still quiet with prices holding at recent declines. Alkalis continue to be the firmest commodity in the list with makers holding prices steady for contracts. Some competition in the spot market has resulted in price shading in some quarters. Makers of aluminum sulfate are quoting their schedule of prices though shading is said to be taking place. Imported material is somewhat lower than domestic but the volume of business done is small. Heavy acids are moving more slowly but prices are unchanged.

Acid, Muriatic—Production is proceeding steadily though buying has not been as active during the summer. Contract deliveries are proceeding regularly. Makers are holding prices steady with 18° in tanks at works at 90c@1.00 and carboys at \$1.00@1.10; 20° in tanks, \$1.00@1.10; carboys, \$1.25@1.50; 22°, \$1.75@2.00 in carboys.

Acid, Oxalic—Makers are holding prices at 12½c@12½c/lb. at works with spot prices from 12½c@13c/lb. in barrels and kegs, 13c@13½c/lb. Imported is named at 12c@12½c/lb. spot.

Acid, Sulfuric—Buying has fallen off during the summer months but a steady volume of business is still being done. There is no over production and prices continue firm at \$15.00@16.00 ton in tanks at works for 66 degree acid; carboys at \$1.25@1.50; drums, \$1.10@1.25; 60 degree acid is in good volume with prices at \$9.00@10.00 in tanks; drums 60c@70c. Oleum in steady demand with supplies still limited; quotations at \$18.00@19.00 in tanks at works and \$1.25@1.75 in drums, works.

Alums—Demand has been quiet and business outside of contract deliveries has been confined to small quantities. Ammonia lump named at \$3.50 and ground at \$3.65; potash lump, 4¼c/lb. at works while imported is held at 3c@3¼c/lb.; chrome, 5½c@6c/lb.; soda 3½c@4c/lb.

Aluminum Sulfate—Buying has been less active owing to slowing up in the paper trade. Makers are holding to \$2.40@2.55 for the iron free while imported material is named at \$2.25. Commercial at \$1.40@1.50 in bags.

Blanc Fixe—Domestic material is firmly held at \$75.00@85.00 ton as to quantity and seller. Demand continues slow. Imported strongly held at \$70.00@72.00 ton, spot.

Casein—Prices remain unchanged with imported material quoted at 15c/lb. while domestic material is held at 17c@18c/lb. Moderate activity during the summer months.

China Clay—While there has been a slowing up in consumption there is enough moving to keep supplies from accumulating too rapidly. Imported material is quoted at a range according to quality from \$16.00@22.50 ton; domestic is held at \$15.00@18.00 ton.

Chlorine—Large business is being done at 4c/lb. for carlots on contract. Spot business continues at 5½c@7c/lb. according to quantity.

Salt Cake—Prominent sellers are naming \$25.00@27.00 ton. Stocks are plentiful and prices are firmly maintained.

Satin White—Makers are quoting prices at 1½c@2c/lb. Buying is restricted at present to actual requirements.

Sodium Silicate—Prices are holding steady while demand is more or less quiet as far as the paper industry is concerned. On spot 40° material is held at \$1.30@1.40 per cwt. in drums; tanks 75c at works; 60°, \$1.70@1.90 at works.

Sodas—Caustic is moving steadily on contract while spot business is fair. A small export movement is in progress with prices at \$3.25@3.30. Spot prices range from \$3.20@3.70 depending upon the brand and quantity. Makers are steady at \$3.16½ for 76 per cent solid at works, on contract. Soda ash is moving well and less subject to price cutting and competition. Spot in bags at \$2.00; bbls., \$2.25; contracts placed at \$1.45@1.50 for 58 per cent light in bags at works.

Rosin—Buying has been more or less of the hand to mouth variety but the total volume of business is reported satisfactory. Prices are holding firmly at recent levels with B grade at \$5.80; D to M, \$6.00; N, \$6.25; WG, \$6.50; WW, \$7.50.

The paper industry in Wisconsin is not feeling the effect of the slump in demand which is usual at this time, owing to the fact that buyers bought only for immediate requirements during the Spring and are now stocking up as prices advance. Rising prices were caused by wage advances and higher coal, wood and rags. Paper prices are not, however, up to the peak following the war.

OTHER PULP AND PAPER MATERIALS

For reports on chemicals, bleaches, fillers, and other raw materials for the pulp and paper industries not reported on this page, see the general market reports on the thirteen pages immediately preceding LEATHER CHEMICALS. For current market quotations on chemicals and allied products with specifications and packing, see price list beginning on fourth page toward the back of the book. Prices are for goods f.o.b. New York or works for prompt shipment unless otherwise specified. Read full explanation on first page of price quotations.

Rubber Chemicals

RUBBER COMPOUNDING INGREDIENTS DULL WITH PRICES STAGNANT AT LOW LEVELS

Industry Still Running on Part Time and Buying From Hand-to-Mouth—Aniline Tendency Slightly Better—Lithopone Continues in Demand—Benzene Easy

The rubber chemical market has been a dull affair during the week past. Demand for compounding ingredients has been dull and prices have stagnated at levels previously noted. In fact, demand has been such as to cause little movement in values either up or down. The trend toward lower levels was not in evidence as a week ago. Although prices are at low levels, they have dropped no lower this week as a group. Whether this is due to the general stagnation of the market or to a tendency of sellers to resist pressure on prices, is difficult to state. Operations in the rubber industry are reported being carried on at a reduced rate. In fact, some factors state that they doubt if there will be any expansion in tire manufacture again this summer as most producers are said to be overstocked. In aniline oil, a slightly firmer tendency is noted. Lithopone is firm and producers are running at capacity. Benzene is in oversupply. Carbon black is offered somewhat more freely, although still strong.

Acid, Acetic—Makers report a steady consumption though the volume of buying is not as large as has recently prevailed. Prices are unchanged with makers quoting the 28% at \$3.38@3.63 in bbls. at works; 56%, \$6.75@7.00; 70%, \$8.38@8.63; 80%, \$9.58@11.60; Glacial, \$12.78@13.53.

Aniline Oil—Stocks have been accumulating in makers' hands during the current week, thereby causing a weak position on spot. Both resales and makers' goods are quoted at 16clb. spot and works, respectively.

Acetone—Still in limited supply with makers firm at \$1.00@1.05 gal. for methyl and 25c@25½clb. for the C.P. in drums at works; resale prices on spot at 30c@32clb.

Antimony Sulfide—Prices unchanged with few inquiries at 19c@20clb. for golden and 38c@39clb. for crimson. Competition keen for what business there is.

Benzene—Demand continues along steady lines with tendency for stocks to pile up as some consuming lines are in very little need of this item at the moment. Pure is quoted at 27c@30cgal. at works; and 90 per cent at 25c@27cgal.

Blanc Fixe—Market has shown no changes with dry at \$75@80 ton, carlots at works, and pulp at \$40@50 ton.

Carbon Black—Demand continues to exceed available supplies although price remains unchanged at 15c@17clb. at works for contracts. With the continued under production, it is difficult to ascertain why plants have not sprung up all over the country.

China Clay—Consumption appears to be moving along even lines with slight tendency for foreign material to pass into use in preference to domestic make. However both grades quoted firm at \$18@24 ton for imported and \$14@20 ton for domestic as to quality.

Hexamethylene—Licensed domestic makers quote impalpable powder in light demand at 95clb. spot drums.

Lithopone—Stocks are moving along routine lines with tendency to sell more goods for future delivery than for immediate consumption. Quoted unchanged at 7c@7½clb. at works.

Sulfur—Business is said to be small and what there is, is subject to considerable competition. Commercial flour quoted at \$1.35 cwt. for barrels in carlots; superfine, \$2.00. Sulfur chloride unchanged at 5c@6clb. works.

Talc—Active demand exists for both imported and domestic. American, \$18@25 ton; Italian, \$24@55 ton; and French at \$32@45 ton spot.

Whiting—Business reported routine at \$1.00 unit for commercial; gilders' bolted, \$1.10; extra gilders' bolted, \$1.15; and English cliffstone, \$1.50 cwt.

TO BUILD RUBBER PLANT IN CANADA

Regal Tire & Rubber Co., Sherbrooke, Que., was recently acquired by Paramount Rubber Consolidated, an American company, which is an amalgamation of Paramount Rubber Consolidated, Little Falls, N. J. and Hodgman Rubber Co., Tuckahoe, N. Y. The Canadian branch will start operation with a large number of orders in several of its departments. Up to the present time the Canadian field has been supplied by American plants, but the growth of the business throughout the Dominion has assumed such large proportions that a separate company was formed to take care of the business, and also to enable the company to take advantage of facilities to ship to various parts of the British Empire under the preferential tariff.

A feature of the trade is the demand for rubber balls. Paramount patents also cover the manufacture of what is now known through the tennis world as the plugless tennis ball. The Canadian company will also manufacture the "Fitform" hot water bottle. It is understood also that the company has in contemplation the bringing out in the near future of automobile and motor boat seats, manufactured on a similar basis to their hot water bottle.

The new uses to which rubber is being placed, especially in paper making, require the latex to be shipped in fluid form instead of sheets. Anhydrous ammonia is the constituent used to prepare the latex for export, and is being placed on the Singapore market in the form of ammonia gas, 100 per cent, put up in steel cylinders containing approximately 100 pounds.

Pennsylvania Rubber Co., Jeannette, Pa., was recently closed owing to the machine workers and finishers demanding 20 per cent wage increase. The suspension order stated that trade conditions did not warrant an increase at this time.

OTHER COMPOUNDING INGREDIENTS

For reports on chemicals, solvents, fillers, vulcanizing compounds, colors, and other raw materials for the rubber industries not reported on this page, see the general market reports on the thirteen pages immediately preceding LEATHER CHEMICALS. For current market quotations on chemicals and allied products with specifications and packing, see price list beginning on third page toward the back of the book. Prices are for goods f.o.b. New York or works prompt shipment unless otherwise specified. Read full explanation on first page of price quotations.



ELLIS JACKSON & COMPANY

18 NO. FRONT STREET

PHILADELPHIA

Foreign Department

29 BROADWAY, NEW YORK

**GLASS, SOAP, PAPERMAKERS,
TEXTILE and FERTILIZER SUPPLIES**

Textile Chemicals

SMALL BUYING OF TEXTILE CHEMICALS ON DULLNESS AND LABOR TROUBLES

Mills Taking Only Immediate Needs—Prussiates Lower—Glaubers Salt Firmer—Potash Bichromate Down—Imported Sodium Sulfide Weak—Tapioca Flour Medium Higher

Although price revisions in chemicals for the textile industry have been fewer during the past week, the majority of changes have continued to be downward. A combination of summer dullness and labor difficulties continues to keep many mills closed and some running on part time. This is directly reflected in chemical buying where small hand-to-mouth lots from local dealers have in many instances taken the place of carlot shipments from manufacturers. Mills are taking on stocks as they need them and are not contracting ahead just yet, although some feelers for fall deliveries of standard chemicals have been reported by one or two manufacturers. In view of the generally weak condition of the market, buyers are attempting to beat down prices wherever possible, but are said to be having little success except in the cases of products where makers have openly cut quotations. On the one hand, makers are banking on a resumption of buying in August, particularly for fall delivery, while on the other side, consumers are hoping for a continuation of the low prices now prevailing in many items when business picks up. A general tendency of prices to become stationary at existing levels is noted.

Acid, Acetic—Makers report a steady consumption though the volume of buying is not as large. Prices are unchanged with makers quoting the 28% at \$3.38@ \$3.63 in bbls. at works; 56%, \$6.75@ \$7.00; 70%, \$8.38@ \$8.63; 80%, \$9.58@ \$11.60; Glacial, \$12.78@ \$13.53.

Acid, Muriatic—Production is proceeding steadily though buying has not been as active during the summer. Contract deliveries are proceeding regularly. Makers are holding prices steady with 18° in tanks at works at 90c@ \$1.00 and carboys at \$1.00@ \$1.10; 20° in tanks, \$1.00@ \$1.10; carboys, \$1.25@ \$1.50; 22°, \$1.75@ \$2.00 in carboys.

Acid, Oxalic—Makers are holding prices at 12½c@ 12½c lb. at works while spot prices from 12½c@ 13c lb. in barrels and kegs, 13c@ 13½c lb. Imported is named at 12c@ 12½c lb. spot.

Acid, Sulfuric—Buying has fallen off during the summer months but a steady volume of business is still being done. There is no over production and prices continue firm at \$15.00@ \$16.00 ton in tanks at works for 66 degree acid; carboys at \$1.25@ \$1.50; drums, \$1.10@ \$1.25; 60 degree acid is in good volume with prices at \$9.00@ \$10.00 in tanks; drums 60@ 70c. Oleum in steady demand with supplies still limited; quotations at \$18.00@ \$19.00 in tanks at works and \$1.25@ \$1.75 in drums, works.

Bleaching Powder—Reduced business is being done at \$1.75@ \$1.90 for large drums at works. Stocks are ample for the summer business. Spot bleach at \$2.25@ \$2.50. Some imported around but does not affect the market.

Epsom Salt—Domestic material is moving well and in demand over imported even at higher prices. U.S.P. named at \$2.25@ \$2.50 as to quantity with imported at \$1.75@ \$2.00.

Glauber's Salt—Prices are showing a firmer tendency owing to the fact that supplies are none too plentiful and that it is difficult to crystallize the salt during the warm months. Makers of technical are quoting slightly higher prices at \$1.35@ \$1.45 for carlots at works. Smaller lots at \$1.20@ \$1.30; U.S.P. crystals are in good demand and prices are stiffening, \$1.40@ \$1.75 as to quantity. Imported material is neglected and goods are offered as low as 70c per 100lb.

Potash Caustic—Buying is along routine lines and prices are holding at 7¼c@ 7½c lb. for imported, spot. Domestic make is named at 9c@ 10c lb. as to quantity at works.

Prussiates—Demand has been lacking and prices continue to decline. Potassium prussiate is down to 30c lb. as a minimum though up to 33c lb. is asked in most directions for the yellow; the red is stationary at 65c@ 67c lb. Sodium prussiate has also declined and 13c lb. can be done in some directions with the range at 13c@ 14c lb. Domestic makers are naming 15½c lb. delivered.

Sodium Sulfide—Domestic material is moving well and prices are fairly steady. Solid 60 per cent is held at 4¾c@ 5¼c lb.; broken, 5c@ 5¼c lb.; flake, 4¾c@ 5¼c lb.; crystals, 2½c@ 2¾c lb. Imported is in little demand and prices have sagged to 3c@ 3½c lb. for 60 per cent; crystals, 2¼c@ 2½c lb.

Sodium Bisulfite—Makers continue to quote 4¼c@ 4½c lb. for the powdered in barrels at works. Demand has been slow.

Sodas—Caustic is moving steadily on contract while spot business is fair. A small movement is in progress with prices at \$3.25@ \$3.30. Spot prices range from \$3.20@ \$3.70 depending upon the brand and quantity. Makers are steady at \$3.16½ for 76% solid at works, on contract. Soda ash is moving well and less subject to price cutting and competition. Spot in bags at \$2.00; bbls., \$2.25; contracts placed at \$1.45@ \$1.50 for 58% light in bags at works.

Starches and Dextrines

Buying has been almost at a standstill though a little improvement has been reported during the last few days. Prices are holding firm at recent levels. Medium grade of tapioca flour is higher. Albumen can be had lower at \$1.05 lb. British gum, \$4.24@ \$4.34; white corn dextrine, \$3.79@ \$3.89; yellow, \$3.84; potato, 7c@ 7½c lb. Starches are firm at \$3.22@ \$3.32 for powdered \$3.12 for pearl and 4½c@ 5c lb. for potato; imported, 5c@ 5½c lb.

OTHER TEXTILE MATERIALS

For reports on chemicals, oils, fillers, finishing compounds, bleaches, and other raw materials for the textile industries not reported on this page, see the general market reports on the thirteen pages immediately preceding LEATHER CHEMICALS. For current market quotations on chemicals and allied products with specifications and packing, see price list beginning on next page toward the back of the book. Prices are for goods f.o.b. New York or works for prompt shipment unless otherwise specified. Read full explanation on first page of price quotations.

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

CLASSIFICATION—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs, Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

Packages—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

QUOTATIONS—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted herein are for goods spot New York or Metropolitan

District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

WEIGHTS AND MEASURES—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20 American Gallons
1 American Gallon	— .833 Imperial Gallon
1 American Gallon	—3.79 Liters
1 Liter	— .264 American Gallon
1 American Gallon (Water)	—8.35 Pounds
1 Pound (Avoirdupois)	— .454 Kilograms
1 Kilogram	—2.20 Pounds

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Chemicals

ACETANILID , tech. 150 lb bbls. D			.27	.28
100 lb kgs. D			.28	.30
USP 200 lb bbls. D			.32	.33
Second Hands			.31	
Acetic Anhydride , 85% 480 lb drs. D			.38	
85%, 107 lb chys. D			.38	
92-95% 100 lb chys. D			.43	.45
Acetone , CP 700 lb drs. c/l wks. D			.25	.25
700 lb drs. c/l wks. D			.25	.25
350 lb drs. c/l wks. D			.25	.25
Second Hands, spot. D			.30	.32
Acetone Oils , light, bbls, wks. gal			1.00	1.05
Heavy, bbls., wks. gal			1.00	1.05
Acetophenone , CP 1 lb bot. D			4.00	4.25
Acetophenetidin , 150 lb bbls. D			1.85	1.95
Acetyl Chloride , 100 lb chys. D			.40	.41
ACID , 1, 2, 4, 250 lb bbls. D			1.30	
Acetic , 28%, 400 lb bbls, c/l wks. D			3.38	
28%, c/l wks. D			3.63	
50%, c/l wks. D			6.75	
56%, c/l wks. D			7.00	
70%, bbls, c/l wks. D			8.38	
70%, c/l wks. D			8.63	
80% coml. bbls. c/l wks. D			9.58	
80% coml. c/l wks. D			9.83	
80% pure bbls. c/l wks. D			11.41	
80% pure c/l wks. D			11.60	
Glacial , bbls, c/l wks. D			12.78	
Glacial , c/l wks. D			13.03	
Glacial , USP chys wks. D			13.53	
Acetylaldehyde , 220 lb bbls. D			.85	.90
Second Hands			.82	
Anthranilic , ton lots drs. D			.98	
95-98%, 100 lb drs. D			1.00	1.10
98-100%, 100 lb drs. D			1.20	
Benzene , tech. 100 lb bbls. D			.75	
Tech. ton lots bbls. D			.72	.77
USP, 100 lb bbls. D			.72	.77
Boric , crys. powd. 250 lb bbls. D			.11	.11
Kegs. 100 lb D			.11	.12
Brownner's , 250 lb bbls. D			1.55	
Butyric , 60% pure 5 lb bot. D			.50	.60
C.P. 10 lb bot. D			1.25	1.50
Camphoric , USP, VIII 1 lb bot. D			5.50	5.60
Carbolic , USP crys. see also Phenol				
110 lb time			.57	
25 lb time			.59	
3 lb time or bot.			.61	.62
1 lb bot.			.66	
Edgell USP, 1 lb bot. D			.65	
ACID, Carbolic —(Continued)				
Crude, 25% 50 gal. bbls. gal			.35	.36
10%, 50 gal. bbls. gal			.30	.32
Chloroacetic				
mono 100 lb bbls. wks. D			.30	
Di, 150 lb chys wks. D			1.00	
Tri, 425 lb bbls. wks. D			2.45	
Chloroformic , 1500 lb drs.				
wks. D			.15	.16
Chromic , USP 200 lb drums. D			.40	
85% Pure, 200 lb drums. D			.35	
Chromotropic , 300 lb bbls. D			1.25	
Chrysophanic , see Chrysarobin				
Cinnamic , 5 lb cans. D			3.00	3.25
CITRIC , USP crys 230 lb bbls. D			.49	
Powd., USP 200 lb bbls. D			.50	
Imported, crys. 112 lb kgs. D			.51	.52
Single kegs			.52	.53
Cloves , 250 lb bbls. D			1.00	1.10
Cresylic , 95% dark dr. NY. gal			.85	.90
97-99% straw, drs. wks. gal				
97-99% pale, drs. NY. gal			.90	1.00
97-99% decolor, drs. wks. gal				
Crude, spot, drums. gal			.70	
Diethylarbituric , 10 lb lots,				
1 lb bot. D			8.50	10.50
Formic , 75% tech. 100 lb chys. D			.11	.12
90%, 75 lb chys. ind. D			.12	.14
Gallie , USP 150 lb bbls. D			.70	.75
Gamma , 225 lb bbls, wks. D			1.80	1.90
Bbls., ton lots wks. D			1.70	1.80
Glycerophosphoric , 25% 1 lb b. D			1.65	1.70
H. 225 lb bbls. single. D			.85	
Bbls., ton lots wks. D			.80	
Hydrodic , 10% USP 5 lb bot. D			.65	.70
Hydrochromic , 48% coml. 155 lb chys. wks. D			.35	.40
48% coml. 10 chys. wks. D			.40	
40% USP 155 lb chys. wks. D			.45	.46
10% USP 100 lb chys. wks. D			.11	.13
Hydrochloric , see also Acid Muriatic				
CP, USP, 110 lb chys. D			.09	.11
HYDROFLUORIC , 30% 400 lb bbls.				
wks. D			.07	
30% bbls. D			.06	
30% 100 lb chys. wks. D			.07	
48% single 100 lb chys. wks. D			.11	
48% 10 chys. wks. D			.10	
52% 100 lb chys. wks. D			.12	
52% 10 chys. wks. D			.11	
Acid, hydrofluoric —(continued)				
60% 100 lb chys. wks. D			.14	
60% 300 lb dr., wks. D			.13	
White Acid, 100 lb chys. wks. D			.26	
White Acid, 10 chys. wks. D			.25	
Hydrofluosilicic , 35% 450 lb bbls. wks. D			.10	.12
Hypophosphorous , USP 30% 5 gal. demis. D			.95	
USP, 10% 5 gal. demis. D			.35	
LACTIC , 22% dark 500 lb bbls. D			.04	.05
22% light, bbls. D			.05	.06
44% dark, bbls. D			.09	.10
44% light, bbls. D			.11	.12
66% bbls. D			.16	
USP IX 100 lb chys. D			.60	.70
USP VIII 100 lb chys. D			.55	
Laurent's , 250 lb bbls. D			.90	
Metanilic , 250 lb bbls. D			.60	.65
Mixed, sulfuric-nitric				
Drums, wks. D			.07	.08
Drums, wks. D			.01	.01
Tank cars, wks. D			.07	.08
Tank cars, wks. D			.009	.01
Molybdic , 85% pure 1 lb bot. D			1.75	1.85
85% pure, 100 lb kgs. D			1.30	
Monomelic F. Delta , 50 lb time			.230	
MURIATIC , 20° chys. c/l wks. D			1.40	1.50
Chys. c/l wks. D			1.25	1.50
Tank cars, wks. D			1.00	1.10
18°, 120 lb chys. c/l wks. D			1.00	1.10
Tank cars, wks. D			.90	1.00
22°, 120 lb chys. c/l wks. D			1.75	2.00
Iron, free 20° chys. c/l wks. D			1.35	
Tank cars, wks. D			20.00	25.00
Muriatic , CP & USP, see Acid Hydrochloric				
Naphthionic , tech. 250 lb bbls. D			.62	
Refined, single bbls. D			.65	
Neville & Wintner's , 250 lb bbls. D			1.35	

**Cooper's
ACIDS**
Technical
Chemically Pure

Hydrochloric

6 lb. bots.
Case: 12 bots.

Carboys:
Tech. 47 & 112 lbs.
C. P. 47 & 112 lbs.

Nitric

7 lb. bots.
Case: 12 bots.

Carboys:
Tech. 50 & 130 lbs.
C. P. 50 & 137 lbs.

Sulphuric

9 lb. bots.
Case: 12 bots.

Carboys:
Tech. 75 & 175 lbs.
C. P. 75 & 180 lbs.

Cooper's conform to highest standards.

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NEW YORK CITY

Chemicals

ACID, NITRIC, 36° 135D

Chy. wks.100lb	4.75	: 5.00
Chy. c/l wks.100lb	4.50	: 4.75
38° single chy. wks. ....100lb	5.50	: 5.75
Chy., c/l wks. ....100lb	5.25	: 5.50
42° single chy. wks. ....100lb	6.00	: 6.50
Chy., c/l wks. ....100lb	5.75	: 6.00
44° single chy. wks. ....100lb	6.75	: 7.50
Chy. c/l wks. ....100lb	6.50	: 7.00
C. P. chy. single wks. ....100lb	.14	: .10
Oxalic, 325 lb bbls. wks. ....D	.12%	: .12%
Bbia., NY .....D	.13	: .13%
Keps, 100 lb NY .....D	.12	: .13%
Imp., 560 lb casks. ....D	.12	: .12%
Phenylacetic, 1 lb bot. ....D	3.00	: 3.25
Phosphoric, 50% tech. 100 lb chy. ....D	.08	: .09
USP, 85% syrupy, 70 lb demis. ....D	...	: .18
Phthalic, see Phthalic Anhydride		
Pteramic, 300 lb bbls. ....D	...	: .65
Pteric, 450 lb bbls. ....D	...	: .30
Bbia. car lots wks. ....D	.20	: .25
Pyrogalllic, crys. 5 lb cans. ....D	...	: 1.20
Resublimed, 5 lb cans. ....D	1.55	: 1.60
Tech. powd., 200 lb bbls. ....D	...	: .80
Salicylic, tech. 125 lb bbls. ....D	.37	: .40
USP, 100 lb bbls. ....D	.40	: .45
Second Hands .....D	...	: .38
Sulfanilic, 250 lb bbls. ....D	.17	: .20
SULFURIC, 66° 180 lb chy. lc/l wks. ....100lb	1.50	: 1.75
Chy., c/l wks. ....100lb	1.25	: 1.50
1500 lb Drums, lc/l wks. ....100lb	...	: 1.25
Drums, c/l wks. ....100lb	...	: 1.10
Tank cars, wks. ....net ton	15.00	: 17.00
60° 1500 lb Drums, lc/l wks. ....100lb	.70	: .90
Drums, c/l wks. ....100lb	.60	: .60

Acid Sulfuric

Tank cars, wks. ....net ton	9.00	: 11.00
C. P. 175 lb chy. ....100lb	.09	: .11
Oleum, 20 p.e. 1500 lb drums, lc/l wks. ....100lb	1.50	: 1.75
Drums, c/l wks. ....100lb	1.25	: 1.50
Tank cars, wks. ....net ton	18.00	: 20.00
Contract cars, wks. ....ton	...	: 18.00
Oleum, 40% drs lc/l wks. ....net ton	...	: 40.00
Oleum, 60% drs, lc/l wks. ....net ton	...	: 70.00
Sulfurous, USP 6% 100 lb chy. ....D	.05	: .06
4% 100 lb chy. ....D	.04	: .05
USP, 5 gal. demis. ....D	.06	: .08
Tannic, tech. 300 lb bbls. ....D	.40	: .50
USP, powd. 200 lb bbls. ....D	.70	: .75
USP, stuffy, 50 lb bbls. ....D	.75	: .80
Tartaric USP crys 300 lb bbls. ....D	...	: .37%
USP, powd. 300 lb bbls. ....D	...	: .37%
Imp. USP, 240 lb bbls. ....D	.34%	: .35
Powd. 240 lb bbls. ....D	.34%	: .35
Tobias, 250 lb bbls. ....D	1.20	: 1.30
Tungstic, 100 lb kags. ....D	...	: 1.00
Valeric, C.P., 10 lb bot. ....D	4.00	: 4.25
Aconitine Alk. crys. 1 oz. vis. ....oz	...	: 30.00
Amorphous, 1 oz. vis. ....oz	...	: 20.00
Adeps Lanae, hydrous 350 lb bbls. ....D	.21	: .23
Anhydrous, 350 lb bbls. ....D	.23	: .24
Albumen, Egg, edible. ....D	...	: 1.05
Technical, see Dyes Sundries		

ALCOHOL, USP 190 pf. 50 gal.

bbls. ....gal	4.78	: 4.83
Second Hands, bbls, USP 190 pf. ....gal	...	: ...
Export, USP, 190 pf. ....gal	.45	: .88
Cologne Spirit, 50 gal. bbls. ....gal	...	: 4.78
WOOD, see Methanol		
Alcohols, also in 50 gal. drums, extra and returnable.		
Amyl, see Oil Fuse!		

ALCOHOL—(continued)

Butyl, 50 gal. drums. ....D	...	: .40
Cinnamic, liquid, 1 lb bot. ....D	12.00	: 16.00
Crystallizable .....D	16.00	: 18.00
Isobutyl, crude 50 gal. drums. ....gal	...	: 4.40
Refined, 10 lb can. ....D	...	: .75
Isopropyl, crude 50 gal. drs. ....gal	...	: 2.25
Refined, 50 gal. drs. ....gal	4.00	: 4.50
Ref'd, 91%, drs. ....gal	...	: 3.50
Methyl, see Alcohol, Wood		
Phenylethyl, see Phenylethylalcohol		
Propyl, nml. crd 50 gal. drms. ....gal	...	: 4.40
Refined, 10 lb can. ....D	...	: .75
Denatured		
No. 1 Complete Denat. 188 Proof 50 gal. bbls. incl. ....gal	.46	: .48
50 gal. drums, extra. ....gal	.41	: .43
No. 1 Special Denat. 190 Proof 50 gal. bbl. incl. ....gal	.44	: .46
50 gal. drums, extra. ....gal	.38	: .40
No. 5 Complete Denat. 188 Proof 50 gal. bbls. incl. ....gal	.43	: .45
50 gal. drums, extra. ....gal	.37	: .39
No. 6 Complete Denat. 188 Proof 50 gal. bbls. incl. ....gal	.41	: .45
50 gal. drums, extra. ....gal	.36	: .38

In addition to the regular authorized formulae for completely denatured alcohol, some 75 formulae for specially denatured alcohol are authorized for special uses. Owing to the limitations of their use however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulae in products authorized by the Dept. of Internal Revenue. For prices on specially denatured alcohols not listed above, consult any of the alcohol producers.

General Chemicals

A MARK OF PLEDGED RESPONSIBILITY



ON PRODUCTS OF STANDARD MERIT

Sulphuric Acid

Acetic Acid
Chlorosulphonic Acid
Hydrochloric Acid
Mixed Acids
Nitric Acid

Alum
Aluminum Sulphate
Aqua Ammonia
Copperas Nitrate Iron
Ferrous Sulphide

Salt Cake
Tin Crystals
Sodium Sulphide
Sodium Silicate
Sodium Phosphate

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Chemicals

Alotin, USP 100 lb cases..... lb	.37	: .90	ALUMINUM SULFATE—(Continued)			AMMONIUM CHLORIDE—(Continued)		
Alpha-Naphthol, crude 300 lb bbls. lb	...	: .65	Cont. bgs. c/l wks. E. 100 lb	...	: 1.40	Imp. wh. 600 lb cases spot. lb	.05%	: .06%
Refined, 300 lb bbls. lb	...	: .75	Bags, c/l wks. W. 100 lb	...	: 1.35	Gray, 600 lb cases spot. lb	.07	: .08
Alpha-Naphthylamine, 350 lb bbls. lb	.37	: .39	Bbls., c/l wks. East. 100 lb	...	: 1.55	Lump, 500 lb cases spot. lb	.13	: .14
Ton lots, bbls, wks. lb	.35	: .37	Bulk, c/l cont. wks. E. 100 lb	...	: ...	Ichthyolate, as to brand. lb	.75	: 4.00
ALUM, Ammonia, lump 400 lb bbls.			Amidol, (see Diaminophenol)			Iodide, USP 25 lb jars. lb	...	: 5.20
wks. 100 lb	3.50	: 3.65	Amidopyrine, 10 lb boxes. lb	5.00	: 5.25	Lactate, 500 lb bbls. lb	.15	: .16
Imp., 500 lb cases. 100 lb	3.50	: 4.00	1 lb cartons, 10 lb boxes. lb	...	: ...	Nitrate, tech. crys. 225 lb bbls. lb	...	: ...
Ground, 400 lb bbls. wks. 100 lb	3.65	: 3.75	Aminocarbene, 110 lb kgs. lb	...	: 1.15	Refined Crystals, bbls. lb	.18	: .20
Powd., 380 lb bbls. wks. 100 lb	3.90	: 4.00	AMMONIA anhyd. 100 lb cyl. lb	...	: .30	CP gran. 100 lb kegs. lb	.35	: .37
Chrome, 500 lb cks wks. 100 lb	5.50	: 6.00	Water, 26° 800 lb drs. wks. lb	...	: .07%	Oxalate, pure, 100 lb kegs. lb	.50	: .57
Potash, lump 400 lb bbls.			Drs. c/l wks. lb	...	: .07%	Persulfate, 112 lb cases. lb	.55	: .60
wks. 100 lb	...	: 4.50	Imp., 800 lb drs incl spot. lb	...	: .06%	Phosphate, dibasic 200 lb bbls. lb	.54	: .60
Bbls. c/l wks. 100 lb	...	: 4.25	26° 100 lb chys. lc/l wks. lb	...	: .08%	Tech., powd. 325 lb bbls. lb	.15	: .17
Cont. bbls c/l wks. 100 lb	...	: 4.25	Chys., c/l wks. lb	...	: .08%	Salicylate, USP 100 lb kegs. lb	...	: .85
Imp. 650 lb cases s.p. 100 lb	3.00	: 3.25	20°, 800 lb drs. lc/l wks. lb	...	: .08	Sulfate, bulk c/l wks. 100 lb	...	: 3.20
Ground, 400 lb bbls. wks. 100 lb	4.35	: 4.60	Chys., lc/l wks. lb	...	: .07%	200 lb single bgs c/l wks. 100 lb	...	: 3.30
Imp. 650 lb cases. 100 lb	3.00	: 3.25	18°, 800 lb drs. lc/l wks. lb	...	: .05%	200 lb double bgs. f.a.s. 100 lb	...	: 3.65
Powd., 380 lb bbls. wks. 100 lb	4.50	: 4.75	Chys., lc/l wks. lb	...	: .07%	Sulfocyanide, tech. 100 lb kgs. lb	...	: .50
Chrome, 700 lb cks wks. 100 lb	5.50	: 6.00	16°, 800 lb drs. lc/l wks. lb	...	: .04	CP, 25 lb jars. lb	.60	: .65
Soda, grd. 400 lb bbls. wks. 100 lb	...	: 4.00	Chys., lc/l wks. lb	...	: .05	Amyl Acetate, tech. 50 gal. drs. gal	4.50	: 4.75
Bbls. c/l wks. 100 lb	...	: 3.50	Ammonium Acetate, 100 lb kegs. lb	.35	: .36	Pure, 5 gal. cans. gal	7.00	: 8.00
Aluminum, metal, c/l NY. 100 lb	25.00	: 26.00	Benzoate, USP 1 lb bot. lb	.85	: .90	Alcohol, see Fuel Oil		
Chloride, anhyd. 275 lb drs. lb	.20	: .22	Bifluoride, 300 lb bbls. lb	.23	: .23	Butyrate, 1 lb bot. lb	2.00	: 2.10
30% sol. 120 lb chys. lb	.03%	: .04	100 lb kegs. lb	.23	: .24	Formate, 1 lb bot. lb	3.00	: 3.25
Hydrate, 96% light 90 lb bbls. lb	.18%	: .20	Bromide, 50 lb boxes. lb	...	: .33	Salicylate, 100 lb chys. lb	1.45	: 1.60
SULFATE, Iron-free bags c/l			Imported, 112 lb boxes. lb	.17	: .19	Anethol, 2 lb bot. lb	1.60	: 2.00
wks. 100 lb	2.50	: 2.65	Carb., tech. 560 lb cases. lb	...	: .09%	ANILINE OIL, 900 lb drs. lb	.16	: .17
Imported, spot. 100 lb	2.25	: 2.50	Powd., tech. 385 lb bbls. lb	...	: .09	Aniline Salt, 200 lb bbls. lb	.24	: .25
Comm'l., ¾% iron, bgs. c/l			USP, lump, 100 lb kegs. lb	...	: .09%	Anisic Aldehyde, 1 lb bot. lb	3.75	: 4.50
wks. East 100 lb	1.40	: 1.55	Powd., 100 lb kegs. lb	...	: .09	Anthracene, 40-45% 600 lb cases		
			Chloride, Domestic			wks. lb	.12	: .17
			White gran. 250 lb bbls. NY. lb	...	: .08	80-85%, 600 lb cases wks. lb	.75	: 1.00
			Bbls., c/l wks. lb	...	: .07%	Anthraquinone, mol 125 lb bbls. lb	1.30	: 1.35
			Gray 250 lb bbls. wks. lb	...	: .08%	30% paste 350 lb bbls. lb	.80	: .85
			Bbls., c/l wks. lb	...	: .08%	Antimony metal, slabs ton lots 100 lb	6.75	: 6.87
						Needle Powd., 100 lb cases. lb	.05%	: .06%

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Colchicine Salicylate
Creosote, U. S. P.
Creosote Carbonate
Cumarin
Diacetylmorphine
Alkaloid and Hydrochloride
Digitalin Pure
Duboisine Sulphate
Emetine and Salts
Eserine and Salts
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Hyoscyne Hydrobromide
Hyoscyamine and Salts
Morphine and Salts
Phenolphthalein
Pilocarpine and Salts
Potassium Guaiacol
Sulphonate "Alta" Brand
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Genuine "Biebrich"
Silver Proteinate
Sodium Cacodylate
Sparteine Sulphate
Strophanthin
Strychnine and Salts
Theobromine and Salts
Veratrine and Salts
Yohimbin Hydrochloride

THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK

Chemicals

ANTIMONY CHLORIDE, anhyd 1000b			Bay Rum, Porto Rican, genuine			Beta-Naphthylamine, tech. 200b		
dra.	b	.35	Denat. salicy acid or tartar emetic			0015.	b	.76
50 lb. crocks	b	.45	45 gal. bbls.	gal	3.00	Sublimed, 200b bbls.	b	1.35
Sol'n, 130 lb. carboys	b	.12	Denat. quinine sulf. 45 gal.			Bichloride Mercury, see Mercury Bichloride		
Oxide, 500 lb. bbls.	b	.07 1/2	bbls.	gal	3.40	BISMUTH metal, 150 lb cases	b	2.75
Salt, dom. 500 lb. bbls.	b	.24	Domestic synthetic, 50 gal.			Second Hands	b	2.65
Imp., NY	b	.23	bbls.	gal	1.25	Ammon. Citrate, USP 5 lb bxs.	b	5.60
Sulfuret, golden 500 lb bbls.	b	.21	Benzaldehyde, tech. 945 lb dra.			Betanaphtholate, 5 lb bxs.	b	3.20
336 lb kegs	b	.19	wks.	b	.75	Citrate, USP 5 lb bxs.	b	3.00
Crimson, 500 lb bbls.	b	.38	USP, 40 lb chys.	b	1.50	Nitrate, 25 lb jars	b	1.85
336 lb kegs	b	.36	FFC, 40 lb chys.	b	1.75	Oxychloride, 250 bbls.	b	3.35
Red, 500 lb bbls.	b	.45	BENZENE, 90% 8000 gal. tanks			Phenolsulfonate, 5 lb cans	b	3.05
336 lb kegs	b	.42	wks.	gal	.25	Salicylate, 250 bbls.	b	1.95
Tartrolactate, 500 lb bbls.	b	.45	110 gal. dra. wks.	gal	.30	Subcarbonate, USP, 250 bbls.	b	3.25
Antipyrine, USP, 100 lb cases	b	2.80	Pure, Tanks, wks.	gal	.27	Subarbonate, USP 250 bbls.	b	3.25
Apomorphine Hydrochloride, 1/2 oz. vials	oz	19.65	110 gal. dra. wks.	gal	.33	X-Ray diag. 1 lb bot.	b	3.60
Arecline Hybromide, 1 oz. vial.	oz	9.00	Benzidine Base, dry 250 lb bbls.	b	.82	Subgallate, USP 175 bbls.	b	2.65
Argols, red powd. 350 lb bbls.	b	.06 1/2	10 bbl. lots	b	.80	Subiodide, 5 lb lots	b	4.55
Arsenic, metal 220 lb kegs.	b	.35	Benzidine Sulfate, paste 350 lb			Subnitrate, USP, 250 bbls.	b	2.75
Red, 224 lb kegs cases	b	.15	bbls.	b	.70	Second Hands, bbls. or less.	b	2.60
White, 550 lb bbls, c/1 NY.	b	.10	Benzol, see Benzene			Cones, 1 lb bot.	b	3.75
Aspirin, see Acid Acetylsalicylic			Benzonaphthol, 5 lb boxes	b	2.00	Subsalicylate, USP, 175 bbls.	b	3.05
Atropine Alk. USP 1 oz. vial.	oz	9.50	Benzoyl Chloride, 500 lb dra.	b	1.00	Tannate 1 lb bot.	b	2.58
Sulfate, 5 oz. cans.	oz	4.00	Benzyl Acetate, 100 lb chys.	b	1.40	Bismuth Preparations quoted		
Single ounce	oz	4.17	Alcohol, 5 lb bot.	b	1.60	above on basis 25 lb lots.		
BARIUM BINOXIDE, see Barium dioxide			Benzoate, 5 lb bot.	b	1.50	Smaller lots at an advance.		
Carbonate, precip. 800 lb bbls.			Medicinal FFC	b	1.75	Blanc Flac, dry 400 lb bbls. wks.	ton	80.00
wks.	ton	70.00	Chloride, 95% tech. 925 lb dra.	b	.80	Imported, bbls.	ton	70.00
Imports, bbls., spot.	ton	70.00	100 lb chys.	b	.30	Paste, 650 lb bbls.	ton	50.00
Precip., 200 lb bbs, wks.	ton	68.00	Redistill. 100 lb chys.	b	.45	BLEACHING POWDER, 700 lb dra.		
Chloride, 800 lb bbls. wks.	ton	90.00	Formate, 1 lb bot.	b	3.25	c/1 wks.	100 lb	1.75
200 lb bbs. wks.	ton	88.00	Berberine Hydrochloride, 1 lb bot.	b	22.00	Drums 1c/1 ex-warehouse.	100 lb	2.25
Import, bbls., spot.	ton	85.00	Sulfate, acid or neut. 1 lb bot.	b	22.00	Contract, c/1 wks.	100 lb	1.75
Dioxide, 88% 690 lb dra.	b	.17	BETA-NAPHTHOL, 350 lb bbls. wks.	b	.23	F. a. s. c/1.	100 lb	...
Import, 83-85% 400 lb dra.	b	.16	Ton lots, wks.	b	.20	Imported, spot.	100 lb	...
Hydrate, 500 lb bbls.	b	.05 1/2	Sublimed	b	.55	Blue Ointment, see Mercury		
Iodide, 5 lb box.	b	5.15				Mass, see Mercury		
Nitrate, 700 lb casks.	b	.10				Bone Ash, 100 lb kegs.	b	.08
Import, casks	b	.07 1/2				Black, 200 lb bbls.	b	.08
Sulfoyanide 400 lb bbls.	b	.35						
Barytes, floated 350 lb bbls.	ton	33.50						

THE NEW YORK TIMES, WEDNESDAY, JULY 4, 1923

METZ TESTIMONY
IN CHEMICAL SUITMisrepresented in Reports of the Trial, He Tells The
Associated Press

RETRACTION BY ONE PAPER

Facts Regarding His Testimony Brought Out in a Statement
by Assistant Attorney General

Colonel Herman A. Metz, who has been a witness in the suit of the Government against the Chemical Foundation, Inc., at Wilmington, Del., declares that his testimony has been grossly misrepresented. In a statement to the Associated Press he said:

"The Morning News, of Wilmington, Del., on June 26, 1923, published an article purporting to give my testimony as a witness for the Government in the suit of the United States against the Chemical Foundation, Inc.

"This article stated in effect that I had paid money to German spies, one of whom was under indictment as a fugitive from justice, for information extracted from War Department files and used by United States Senator Moses in a Senatorial dye investigation.

"On June 27, 1923, the Wilmington News published a complete retraction of this article, stating among other things that their previous publications to the effect as above stated was false in every particular, and further that they were neither reproductions of the testimony nor fair paraphrases thereof.

"They also stated that their representative was not at the trial; that the testimony as printed in The News was not given at the trial; that I did not admit that I had paid any person, shown by the testimony to be a German spy, any sum of money whatever; that I had never employed any person charged with being a German spy to get any information from the War Department, and that there was no testimony given that the persons named in the article were German spies.

"Although counsel for the defendant charged in court that I was

the invisible plaintiff in the suit and had instigated the Government's action, I swore that I was in Europe when President Harding demanded the return of the patents and that I had never discussed with any official of the Government the matter of the present suit. Assistant United States Attorney General Henry W. Anderson, during the trial at Wilmington, offered in evidence a large number of communications addressed to me by Secretary Bryan, Secretary Lansing, Ambassador Gerard, Ambassador Page and other Government officials, for the purpose of showing that all my actions in connection with the dyestuff situation were undertaken and carried out with the full knowledge of the Government and by their advice and sanction.

"On June 26 Colonel Henry W. Anderson, Assistant Attorney General, made the following statement to the Court concerning myself, which I have not seen printed in any newspaper:

"The character, standing, loyalty, integrity and every other quality that this witness possesses was attacked on cross-examination, and the witness was with counsel acting well within his legal rights and therefore I am not complaining, restrained to a very limited reply as to those questions.

"It is not only the right of the Government, but that which is due in fairness to the witness himself, to let the facts as fully as I know them to be brought out, so that the testimony of the witness may be complete for the consideration of the Court. This man is engaged in a large business. I say again, counsel, acting within his rights, attacked this witness and his credibility and his character, and loyalty with a severity that I do not recall having before witnessed, and the evidence already in this case justifies in my judgment the statement that this is but a part of a long continued controversy.

"Those things, unless the full facts are brought out as far as one can on sudden notice of this kind, are liable to do irreparable injury to an individual when there is no redress, because these things done in a court of justice afford no redress. Therefore, while I deem all of that matter as immaterial, and have so stated, those questions having been gone into, in my judgment, it is my duty to the full extent that I on short notice have a chance to do so to bring out every fact, in order that the whole picture may be observed, because on cross-examination a witness is not allowed to talk, he is not allowed to explain, he is not allowed to tell his motives; he is just pinned down to practically bare statements and half proof."

Although The Times did not publish the article cited, it feels that Colonel Metz is entitled to the publication of the above statement as a means of correcting any misapprehension that may have been created.

Chemicals

Borax, USP, cryst. 400 lb bbls..lb	.05½	.05½
Powdered, U.S.P. 300 lb bbls..lb	.05½	.05½
Kegs, USP, 100-150 lb.....lb	.05½	.06
Bordeaux Mixture, powd. bbls..lb	.12	.15
Paste, bbls.....lb	.08	.10
Borneol, 1 lb bot.....lb	...	3.50
Bromide, see potass. bromide, etc.		
Bromine, bot. in 60 lb cs. wks..lb	...	.29
Bromobenzene, 600 lb drums.....lb	.40	.42
Bromoform, USP 5 lb bot 50 lb cs..lb	...	1.50
Bromistrol, 25 lb kegs.....lb	4.00	4.25
Breine Sulfate, 100 ozs.....oz	...	.20
Butter of Antimony, see Antimony Chloride		
CADMIUM, metal 100 lb bbs.....lb	1.15	1.25
Bromide, 50 lb cases jar.....lb	...	1.10
Iodide, 10 lb bot.....lb	...	4.45
Sulfide, cs.....lb	1.50	1.60
CAFFEINE ALK. USP 5 lb cans..lb	3.75	4.25
Second Hands.....lb	3.65	3.75
Hydrochloride, 1 lb bot.....lb	7.12	7.32
Sulfate, 1 lb bot.....lb	...	5.50
Citrate, 25 lb cans.....lb	3.00	3.25
Hydrobromide, 1 lb bot.....lb	...	4.75
CALCIUM Acetate, 150 lb bgs, c/l wks.....lb	...	4.00
Arsenate, 100 lb bbls. c/l wks..lb	.17	.19
Bbla. lc/l wks.....lb	.18	.21
Bromide, 100 lb cs.....lb	...	.45
Calcium Carbide, 220 lb dr c/lwks lb	...	.04½
Drums lc/l wks.....lb	...	.05
Carbonate, tech. 100 lb bags c/l.....lb	1.00	1.10
USP, precip. 175 lb bbls..lb	...	.04
Chloride, solid, 650 lb drs. c/l f.o.b. NY.....ton	...	24.50
Gran. 350 lb drs. c/l f.o.b. NY.....ton	...	30.50

CALCIUM CHLORIDE—(Continued)

Flake 330 lb drs. c/l drs. f.o.b. NY.....ton	...	30.50
Anhyd., 350 lb drs. f.o.b. NY..lb	.13	.20
Glycerophosphate, 250 lb bbls..lb	1.55	1.60
Hydrate, (see Lime)		
Iodide, 5 lb bot.....lb	...	4.35
Lactate, tech. 500 lb bbls.....lb	...	.13½
Nitrate, 220 lb bbls. c/l NY..ton	...	40.00
Phosphate, tech. 350 lb bbls..lb	.09	.10
Phosphate, precip. tribasic 200 lb bbls, wks.....lb	.12	.13
Phosphate, mono.....lb	.07	.09
Sulfocarbonate, 100 lb kegs.....lb	.60	.62
Calomel, see Mercury		
CAMPHOR, Amer. ref. 250 lb bbls.....lb	...	.96
2½ lb slabs, 100 lb cs.....lb	...	.97
1 lb cakes, 100 lb cs.....lb	...	.97½
1 oz. tab., 1 lb ctns.....lb	...	1.01½
100 lb cs.....lb	...	1.02
100 lb cs.....lb	...	1.02
Jap. ref. 2½ lb slabs, 100 lb cs.....lb	.87	.89
1 oz. tab., 100 lb cs. 1 lb tins.....lb	...	1.00
½ oz. tab. 100 lb cs. 1 lb tins.....lb	...	1.02
Chinese ref. 2½ lb slabs 100 lb cs.....lb	...	.90
Crude, 100 lb cs.....lb	.72	.73
Campbor, Monobrom. 100 lb cs..lb	1.75	1.85
Caramel, 50 gal. bbls.....gal	.60	.62
Carbazol, 250 lb bbls.....lb	.75	.80
Carbon Bisulfide, 500 lb dr. lc/l NY..lb	...	.06½
c/l drums, NY.....lb	...	.06
Carbon Black, 12½ lb bags, wks..lb	.18	.35

Carbon Tetrachloride, 1400 lb drs. NY.....lb	...	.10½
Drums, c/l NY.....lb	.09	.09½
700 lb drs. single NY.....lb	...	.10½
Carmin, No 40 5 lb boxes.....lb	4.50	4.60
Casein, edib. 100 lb keg.....lb	.45	.50
Technical, 200 lb bbls.....lb	.16½	.18
Castoreum, 1 lb boxes.....lb	4.00	4.50
Castor Oil, USP 50 gal. bbl.....lb	...	.14½
Cases, 80 lb 2 tins.....lb	...	.15
Techn., see Fixed Oils		
Caustic Potash, see potash, caustic		
Soda, see soda, caustic		
Cellulose Acetate, 100 lb cases..lb	1.75	2.00
Cerium Oxalate, USP 100 lb kgs..lb	.48	.53
Chalk, drop 175 lb bbls.....lb	...	.03½
Precip. light 250 lb csks.....lb	.04½	.04½
Precip. heavy 560 lb csks.....lb	.03½	.04
Bulk.....ton	5.00	8.00
Precip. English, 7 lb bags.....lb	...	.07½
Charcoal, Bone, see bone black		
Wood, powd. 100 lb bbl.....lb	.04	.05
Willow, powd. 100 lb bbl.....lb	.08	.07
China Clay, imp.....ton	16.00	22.50
Domestic, fob Mine.....ton	15.00	17.50
Chloral Hydrate, USP 100 lb drs..lb	.75	.80
25 lb jars.....lb	.75	.81
Chloroform, 170 lb cases.....lb	.65	.75
Chloramine-T, 5 lb bot.....lb	1.25	2.50
Chloroform, 5 lb bot.....lb	.55	.75
Chlorhydrin, Ethylene anhyd, 600 lb drs.....lb	.75	.85
40% soln. 100 lb cbs.....lb	.25	.30
CHLORINE, Liquid 2000 lb cyl. c/l wks.....lb	.05½	.05½
Tank car lots wks.....lb	.05½	.05½
100 lb cyl. c/l.....lb	...	.06
100 lb cyl. lc/l wks.....lb	.06½	.07
100 lb cyl. lc/l, ex-warehouse..lb	...	.09
Chlorobenzene, mono. 1000 lb drs. wks.....lb	.11	.12
Dr. c/l wks.....lb	.10	.11
Tank car lots wks.....lb	...	.09
CHLOROFORM, USP 50 lb drs..lb35
Second Hands, 650 lb drs..lb	.31	.33
Technical, 650 lb drums.....lb	.31	.33



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Chromium Acetate, 20° soln. 400 lb bbls.08	: .10	COD LIVER OIL, Norwegian, 30 gal. bbls.	25.00	: 25.50	Cyanamide, bulk c/l wks. amm. unit ...	: 3.25
Fluoride, Powd. 400 lb bbls. ....	...	: .30	Newfoundland, 30 gal. bbls. bbl ...	...	: ...	DIAMINOPHENOL, 100 lb kgs.	: 3.80
Soln. 400 lb bbls. ....	...	: ...	Colchicine alk., USP 1 oz. vial. ....	...	: 30.00	Dianisidine, 100 lb kgs.	: 4.60
Sulfate, 400 lb bbls. ....	.07	: .09	Salicylate, 1 oz. vial. ....	...	: 45.00	Dichlorobenzene, 1000 lb drs.	: .08
Chrysarobin, USP 5 lb cans.	2.00	: 3.00	Colloidon, USP 30 lb drums. ....	.22	: .23	Diethyl Phthalate, 25 lb cans.	: .55
Cinchonidin alk., powd. 100 oz. tins. ....	...	: .70	Flexible, USP 30 lb drums. ....	.27	: .28	Diethyl Sulfate tech. 50 gal. drs.	: .20
Crystal ....	...	: .75	COPPER, metal electrolytic c/l NY	14.75	: 14.90	CP drums	: .40
Sulfate, 100 oz. tins. ....	.49 1/2	: .50	Lake, c/l NY.	14.90	: 15.00	Digitalin, Pure, 1 oz. vial.	: 7.75
Cinchonine, alk., powd. 100 oz. tins. ....	...	: .58	Casting, c/l NY.	14.50	: 14.75	Dimethylaniline, 840 lb drs. wks.	: .42
Crystal ....	...	: .42	Carbonate, 400 lb bbls. ....	.18	: .18 1/2	Dimethylsulfate, 100 lb drs.	: ...
Sulfate, 100 oz. tins. ....	...	: .25	Chloride, 250 lb bbl. ....	...	: .30	Dinitrobenzene, 400 lb bbls.	: .19 1/2
Cinnamic Alcohol, see Alcohol Cinnamic			Cyanide, 100 lb drs. ....	.58	: .60	Dinitrochlorobenzene, 400 lb bbls.	: .19 1/2
Cinnamic Aldehyde, 1 lb bot.	3.50	: 3.50	Iodide, 5 lb bot. ....	...	: 5.65	Dinitronaphthalene, 350 lb bbls.	: .32
Citral, 25 lb cans.	2.75	: 3.00	Oxide, 1000 lb bbls. ton lots. ....	.18	: .18 1/2	Dinitrophenol, 350 lb bbls.	: ...
Citrus Ointment, see Mercury			Sub-Acetate, verd. 440 lb bbls. ....	.23	: .28	Dinitrotoluene, 300 lb bbls.	: .19
Citronella, 1 lb bot.	2.00	: 2.25	SULFATE, crys. 450 lb bbls. lc/l spot ....	...	: 5.50	Dionin, see Morphine, Ethyl	
Citronellol, 1 lb bot.	8.00	: 14.00	Carlots, bbls. f.o.b. NY. 100 lb ...	5.20	: 5.25	Diphenylamine, 250 lb bbls.	: .48
Cobalt metal, 100 lb kgs.	2.75	: 2.85	Carlots, bbls., delivered. 100 lb ...	...	: 5.50	Diphenylguanidine, 170 lb bbls.	: 1.15
Cobalt Oxide, 500 lb bbls. ....	...	: 2.10	Imp. 550 lb cks.	4.50	: 4.75	Diphenylchloride, 500 lb drums.	: .85
10 lb tins 200 lb cans. ....	...	: 2.35	Powdered, 350 lb 5 bbls. ....	.06	: .06 1/2	Dover's Powder, USP 5 lb tins.	: 2.20
COCOAINE alk., USP, 1 oz. vial. ....	...	: 11.00	Copperas, bulk c/l wks.	20.00	: 21.00	Duboisine Sulfate, 1 oz. vial.	: 60.00
Hydrochloride, USP—1 oz. vial, 25 ozs. ....	...	: 7.07	400 lb bbls. c/l wks. ....	...	: 25.00	EARTH, Diatomaceous, see Kieselguhr	
In 3/4 oz. vials. ....	...	: 7.50	200 lb bgs. c/l wks.	1.90	: 2.00	Emetine, alk., 15 gr. vials.	: 1.65
In crystals, granular, powder, or flaky crystals as desired.			Powdered, bbls. ....	...	: 1.75	Hydchilde, USP 1 oz. vial.	: 19.00
Cocoa Butter, bulk, 200 lb bales. ....	.28	: .29	Sugar, 400 lb bbls. ....	...	: 3.51	15 gr. vials.	: .75
Fingers, cakes, etc. 12 lb bxs. ....	.34	: .37	Corn Syrup, 42 deg. 50 gal. bbls. ....	...	: 3.56	EPSOM SALT, tech. 300 lb bbls. NY	: 2.15
CODEIN alk., 1 oz. vial. 10 oz. lots ....	...	: 8.62	43 deg. 50 gal. bbls. ....	...	: 3.56	Bbls. c/l NY.	: 2.00
Hydrobromide, 1 oz. vial, 10 oz. lots ....	...	: 6.92	Corrosive Sublimate, see Mercury Bichloride			100 lb bgs. c/l NY.	: 1.80
Hydrochloride, 1 oz. vial, 10 oz. lots ....	...	: 7.77	Cotton Soluble, 100 lb bbls. wet. ....	.40	: .42	Imp., 220 lb bgs. c/l NY.	: 1.00
Nitrate, 1 oz. vial, 10 oz. lots. ....	...	: 7.77	Coumarin, 25 lb tins.	4.50	: 4.75	USP, 300 lb bbls. 10 bbls. 100 lb ...	: 2.50
Phosphate, 1 oz. vial, 10 oz. lots ....	...	: 6.47	Second Hands ....	...	: 4.35	Carlots, bbls.	: 2.25
Salicylate, 1 oz. vial, 10 oz. lots ....	...	: 6.47	CREAM TARTAR, USP, 300 lb bbls. ....	...	: 2.64	Imported, 400 lb bbls.	: 1.75
Sulfate, 1 oz. vial, 10 oz. lots. ....	...	: 6.92	Imp. powd. USP, 224 bbls. ....	.25	: .25 1/2	100 lb kgs.	: 2.10
Small Sizes, 3/4 oz. vials. 50c extra, 1/2 oz. 25c extra, single 7c extra per oz.—25 oz. lots, 10c oz. cheaper than above. Less than 10 oz. 15c oz. higher than above.			Creosote, USP, 42 lb cbs. ....	.40	: .55	Ergotin, Boujean, 1 lb jars.	: 8.50
			Carbonate, 1 lb bot. 25 lb	1.80	: 2.00	Eserine alk., 1 oz. vial.	: 30.00
			Creosote Oil, 50 gal. drs.20	: .23	Salicylate, USP 1 oz. vial.	: 22.00
			Cresol, USP, 400 lb bbls.25	: .27	Sulfate, USP VIII, 1 oz. vial.	: 17.00

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Anaesthesia, 55 lb drums.....lb	..	.16	dock	ton	: 25.00	Cans, 50 lb	lb	.17½
USP, 1880 55 lb drums.....lb	..	.38	96% bgs.	ton	: 33.50	Dynamite, 1000 lb drs.....lb	.15	.15½
Washed, 55 lb drums.....lb	..	.30	98% bgs.	ton	: 35.00	Saponification, tanks	lb	.11
Motor, 1 lb cans.....lb	.26	.27	FORMALDEHYDE, USP 400 lb bbls.			Soap, Lye, tanks.....lb	.09½	.10
Ether, Nitrous, 1 lb bot.....lb	.92	.95	c/l wks.	lb	: .14½	Goa Powder, see chrysanrobin		
Ethyl Benzyl Aniline, 300 lb drs. lb	..	1.30	Carboys, 100 lb lc/l wks.....lb	..	.15½	Graphite, crude 220 lb bags.....ton	15.00	35.00
Ethyl Acetate, 99%, 50 gal. drs. gal	1.05	1.15	Bbls. 400 lb lc/l wks.....lb	..	.16	Flake, 500 lb bbls.....lb	.08	.16
85-90% Ester, 50 gal. drs. gal	..	.95	Second Hands	lb	.14	Ground, lump, bbls.....lb	.04	.05
Carlots, drums.....gal	..	.92	Fuller's Earth, 200 lb bgs. c/l			Guaiacol Liquid, USP 25 lb cans. lb	2.50	2.60
Tank Cars	gal	.90	mines	ton	15.00 : 17.00	Benzoate, 1 lb bot.....lb	..	18.00
Pure, 5 lb bot.....gal	..	3.50	Imported, 230 lb bags NY.....ton	35.00	40.00	Carbonate, 5 lb boxes.....lb	5.00	5.25
Benzoate, 5 lb bot.....lb	1.85	2.00	Fusel Oil, refined, 100 gal drn. gal	..	..	HAARLEM OIL, Dom. 6 gr. cs. gross	..	3.50
Bromide 115 lb drs.....lb	..	.40	Crude, 100 gal drum.....gal	..	..	Imported, 5 gr. cases.....gross	5.20	5.25
Butyrate, 5 lb bot.....lb	2.00	2.25	G. SALT, paste 350 lb bbls. basis			Halazone, 5 lb bot.....lb	2.75	3.25
Chloride, 15 lb cyl.....lb	..	.35	100%	lb	.60 : .65	Hellotropin, 10 lb bot.....lb	2.00	2.75
Cinnamate, 1 lb bot.....lb	3.75	4.00	Gelatin, USP silver bbl. 100 lb cs. lb	.85	.90	Hexamethylenetetramine, USP		
Formate, 5 lb bot.....lb	2.00	2.10	Gold Label, 100 lb cases.....lb	..	..	100 lb drums .....	.93	.95
Methyl Ketone, 50 gal. drums. lb	.25	.25½	Technical, 100 lb cs.....lb	.60	.65	Imported .....	.74	.80
Morphine, see Morphine, Ethyl			Geraniol, 50 lb cans.....lb	3.00	4.50	Rubber Makers, Impalp. Pd.	..	.95
Valerate, 5 lb bot.....lb	4.50	4.75	Geranyl Acetate, 1 lb bot.....lb	4.25	4.75	Homatropine Hydrobrom. USP 1 oz.		
Ethylene Bromide, 600 lb drs.....lb	..	.60	GLAUBER'S SALT, tech. 300 lb bags			vial .....	..	16.00
Glycol	lb	1.00	c/l wks.	100 lb	1.20 : 1.30	Five oz., 1 oz. vials.....oz	..	15.00
Chlorhydrin, anhyd. 50 gal. drs. lb	.75	.85	350 lb bbls. c/l wks.....100 lb	1.35	1.45	Hydrastine Alk., USP, 1 oz. vial. oz	..	20.00
40% Solution, 50 gal. bbls. lb	.25	.30	Bbls c/l wks.....100 lb	1.50	2.00	Hydchlde, USP, 1 oz: vial.....oz	..	20.00
Dichloride, 50 gal. drs.....lb	.30	.25	Imported, bbls, spot.....100 lb	.85	1.00	Sulfate, 1 oz. vial.....oz	..	22.00
Eucalyptol, 25 lb cans.....lb	.75	.80	USP, 300 lb bbls, imp. sp. 100 lb	..	1.25	Hydrastinine Hydchlde, USP 16 gr.		
Eugenol, 25 lb cans.....lb	2.85	3.35	USP, 300 lb bbls. dom. sp. 100 lb	..	1.75	vials .....	..	2.40
Feldspar, bulk	ton	20.00 : 25.00	USP, 300 lb bbls. c/l wks. 100 lb	..	1.40	Hydrasobenzene, 100 lb bags.....lb	1.30	1.35
FERRIC CHLORIDE, tech. crys.			Glucose, (Grape Sugar) dry, 100			HYDROGEN PEROXIDE, 35 vol. 400 lb		
475 lb bbls.....lb	..	.08	70° bags, c/l NY.....100 lb	3.11	3.48	bbls.....lb	..	.10
Imported	lb	.07	Syrup, Drs. & bbls, c/l NY 100 lb	..	3.41	USP Soln. 375 lb bbls.....lb	.05	.05½
USP, crys. 100 lb kgs.....lb	..	.08	lc/l NY	100 lb	3.70	USP bot. 4 oz. cases.....gross	8.00	8.25
Imported	lb	.08	GLUE, pure white, bbls.....lb			Bot. 8 oz. cases.....gross	11.75	12.00
Tech. Sol'n 40° 140 lb chys. lb	..	.08	Medium white, bbls.....lb	.25	.30	Bot. 16 oz. cases.....gross	19.75	20.00
48° 140 chys.....lb	..	.08	French, bbls.....lb	.18	.25	Hydroquinone, 100 lb kgs.....lb	1.25	1.35
USP Sol'n 125 lb chys.....lb	..	.06½	High Grade, bbls.....lb	.35	.40	Hycosine Hydrobrom. USP 1 oz.		
Ferrous Chloride, crys. tech.			Boce, regular, bbls.....lb	.10	.12	vial .....	..	31.00
475 lb bbls.....lb	.06	.06½	Flash, bbls.....gal	1.50	1.75	Five oz., 1 oz. vials.....oz	..	20.50
Ferrous Sulfide, 1000 lb bbls. 100 lb	2.50	3.00						
Flake White, see lead, white								

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Hyoscamine Alk. Cryst., 1 oz. vial.oz.	: 35.00	LANOLIN, see Adeps Lanae		Litharge, see lead oxide	
Alkaloid, Amorphous, 1 oz. vial.oz.	: 75.00	LEAD, metal, c/1 NY.....100lb	: 6.25	Lithium Carb. USP 100lb kgs...lb	1.50 : 1.60
Hydrobromide, USP 1 oz. vial.oz.	: 60.00	Acetate, white crystals 500lb		Bromide, 100lb cs.....lb	1.70 : 1.80
Sulfate, 1 oz. vial.....cs	: 35.00	bbls. wks.	: .14	Citrate, USP 100lb kgs.....lb	1.60 : 1.70
ANDOL, C. P. 1 oz. bot.....cs	8.50 : 9.00	100 to 250lb kgs. wks. lb	: .14½	Iodide, 5lb bot.....lb	: 5.40
Iodides, see Potass. Iodide, etc.		White, broken, bbls. wks.100lb	: 13.40	Lithopone, 400lb bbls. lb/1 wks. lb	.07½ : .08
IODINE, crude, 200lb kgs.....lb	3.90 : 3.95	White, gran., bbls., wks.100lb	: 13.65	Bbls. c/1 wks.....lb	: .07
Resublimed, 10lb jars.....lb	: 4.55	White, powd., bbls. wks.....lb	: .14½	Imported, 400lb bbls.....lb	.06 : .06½
Tincture, USP, 50 gal. bbls. gal	4.50 : 4.60	Kegs, wks.	: .15½	Litmus Cubes .....	.90 : 1.00
Carboys	4.75 : 4.85	Brown, broken, bbls. wks.....lb	: .12½	MAGNESITE, crude	: 15.00
Iodoform, powd. 10lb bot.....lb	: 6.00	USP, 100lb kgs.....lb	: .20	Calcined, 500lb bbls.....ton	: 55.00
Crystals, 10lb bot.....lb	: 7.00	Arsenate, 100lb bbls. lb/1 wks. lb	.25 : .26	Magnesium mtl., sticks 100lb cs. lb	1.25 : 1.30
Ionone, (violet) 1lb bot.....lb	5.00 : 9.00	Bbls. c/1 wks.....lb	.21 : .24	Carb. tech. 70lb bags NY...lb	.08 : .08½
Iridium, metal 10oz lots.....cs	: 250.00	Paste, 600lb bbls.....lb	.13 : .13	75lb bbls. NY.....lb	.08½ : .09
Iron, metal by hydrogen 1 lb bot. lb	.65 : .70	Iodide, USP VIII 5lb bot.....lb	3.20 : 3.40	USP, 60lb bbls.....lb	.10 : .11
IRON & AMM. CITRATE, USP 25lb		Nitrate, 500lb bbls. wks.....lb	: .32	USP, blocks 100lb cs. 1, 2, 4	.19 : .23
cans	: .84	Oxide, lithge, 500lb bbls. 100lb	10.90 : 11.15	cs.....lb	
Green scales, 25lb cans.....lb	: .84	100lb kgs. wks.....lb	: .14½	Chloride, fused 575lb dra. c/1	
Caedylate, 10lb bot.....lb	9.00 : 9.35	Oxide, red 500lb bbls. wks.....lb	11.40 : 11.65	wks.....ton	: 34.00
Citrate, USP VIII 25lb cans.....lb	: .90	100lb kgs wks.....lb	: .14½	Flaked, 350lb dra. wks.....ton	: 36.00
Chloride, see ferric or ferrous		White, basic carb. 500lb bbls.	.09% : .10	Imp., fused 900lb bbls. NY ton	26.00 : 28.00
Hypophosphite, 5lb cans.....lb	1.50 : 1.60	Bbls. c/1 wks.....100lb	: .09½	Fluossilicate, crystals 400lb bbls.	
Syrup, USP VIII.....lb	: .30	100lb kgs wks.....lb	: .14½	wks.....lb	: .15
Iodide, 1lb bot.....lb	: 4.20	White, sulfate 500lb bbls. wks. lb	.09% : .09½	30% soln. 500lb bbls. wks. lb	.07 : .07½
Syrup, USP 5lb bot.....lb	.35 : .36	Bbls. c/1 wks.....100lb	: .25	Soln. bbls. c/1 wks.....lb	: .06
Nitrate, kgs .....	.09 : .10	Licorice Ext. Mass, cases.....lb	.25 : .26	Glycerophosphate, 5lb tins.....lb	: 3.35
Com'l, bbls. ....100lb	3.75 : 3.35	Compound powder, bbls.....lb	.11 : .13	Hypophosphite, 5lb cans.....lb	: 1.15
Oxalate, scales 25lb cans.....lb	.80 : .82	Powdered .....	.38 : .40	Oxide, USP light 100lb bbls...lb	: .45
& Ammon. Oxalate, 25lb bxs lb	.45 : .50	Sticks, 1 oz. 100lb cases.....lb	.45 : .50	USP, heavy 250lb bbls.....lb	: .80
& Potassium Oxalate, 25lb bxs. lb	.47 : .48	LIME (Salts, see Calcium Salts)		Peroxide, 5lb cans.....lb	: 2.15
& Sodium Oxalate, 25lb bxs.....lb	.40 : .42	Live, 325lb bbls. ton lots, wks. lb	: .01½	Perborate, 1lb tins.....lb	: 2.25
Phosphate, USP 25lb cans.....lb	: .39	Single bbl. wks.....lb	: .01½	Salicylate, 100lb kgs.....lb	: .80
Pyrophosphate, USP 25lb		Hydrated, 167lb bbl. ton lots,		Sulfate, see Epsom Salts	
cans .....	.90 : .97	wks.	: .01½	Manganese Chloride, 600lb can.	
Iso-Eugenol, 1lb bot.....lb	4.25 : 5.00	Single bbl, wks.....lb	: .01½	NY .....	.09% : .10
JALAP RESIN, lump 5lb tins.....lb	3.25 : 3.35	Oyster Shell, 150lb bbl. single. lb	: .03	Borate, 30%, 200lb bbls.....lb	: .36
Powd., tins	3.40 : 3.50	125lb bag	: .03	100lb kgs	: .37
KIESELGUHR, 90lb bags NY.....ton	60.00 : 70.00	Sulfur, dry 200lb dra. NY.....lb	.08 : .10	Dioxide, 80-84% 900lb bbls.	
		Drs. c/1 NY.....lb	: .10½	NY	80.00 : 85.00
		33° Soln. 50 gal. bbls. NY. gal	.15 : .16	85-90%, 900lb bbls. NY. ton	85.00 : 90.00
		Linalool, 5lb bot.....lb	7.00 : 7.25	Hydrated, precip. 100lb kgs. lb	.32 : .35
		Linalyl Acetate, 1lb bot.....lb	7.00 : 10.00		
		Berzoate, 1lb bot.....lb	15.00 : 14.00		

H F & G

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Methyl Ethyl Ketone

manufactured by

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Oxalic Acid
Formic Acid 90%

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PRODUCTEN

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Chemicals

Manganese—(continued)

Glycerophosphate, 5 lb tins....	D	...	3.05
Hypophos, USP VIII 5 lb cans..	D	...	1.85
Iodide, 1 lb bot.....	D	...	6.40
Ore, bulk NY.....	unit	.40	.45
Sulfate, 800 lb casks NY.....	D	.10	.11
Marble Flour, bulk.....	ton	10.00	12.00
See also Calcium Carbonate			
MENTHOL, USP, 60 lb cases.....	D	9.75	10.00
Less cases, 5 lb tins.....	D	10.00	10.25
MERCURY, metal 75 lb flask.....	flask	66.00	67.00
Less Flasks, 5 lb jugs.....	D	1.02	1.04
Bichloride, cryst. 25 lb bxs....	D	...	1.17
Gran. powd., 200 lb kegs.....	D	...	1.02
Bisulfate, 25 lb boxes.....	D	...	.86
Blue Mass, 25 lb boxes.....	D	...	.62
Powdered, 25 lb boxes.....	D	...	.64
Blue Ointment, USP 25 lb cans	...	...	...
50%	D	...	.30
USP, dilute 25 lb cans 30%..	D	...	.62
33 1/3% Mercury.....	D	...	.67
Calomel, 50 lb bxs.....	D	...	1.25
Citrine Ointment 25 lb jars..	D	...	.50
Iodide, green 25 lb jars.....	D	...	4.00
Red, USP 25 lb jars.....	D	...	4.10
Yellow, USP VIII 25 lb jars..	D	...	4.00
Red Precip. USP 25 lb bxs....	D	...	1.38
Powder, USP 25 lb bxs.....	D	...	1.48
White Precip. USP 25 lb bxs..	D	...	1.49
Powder, USP 25 lb bxs.....	D	...	1.54
With chalk, USP 25 lb bxs....	D	...	.62
Meta-Nitroaniline, 300 lb bbls..	D	.78	.80
Meta-Nitro-para-Toluidine, 300 lb	...	...	...
bbls.....	D	...	2.25
Meta-Phenylenediamine, 300 lb	...	...	...
bbls.....	D	.90	.95
Meta-Toluylenediamine, 300 lb	...	...	...
bbls.....	D	.90	.95

METHANOL (Wood Alcohol)

95%, 50 gal. drums, ext....	gal	1.12	1.16
97%, 50 gal. drums, ext....	gal	1.14	1.17
Pure, 50 gal. drums, ext....	gal	1.30	1.35
Acetone free, 50 gal. drums, ext.	gal	1.25	1.40
Bbls. incl. 5c higher			
Methyl Acetone, 100 gal. drums..	gal	...	1.05
Tanks cars	gal	...	1.00
Anthranilate, 1 lb bot.....	D	3.50	4.50
Chloride, 90 lb cyl.....	D	...	.50
Cinnamate, 1 lb bot.....	D	3.75	4.00
Paracresol, 1 lb bot.....	D	8.00	9.00
Salicylate, USP, 50 lb cases..	D	...	.57
500 lb drums	D	...	.55
Second Hands, cases.....	D	.50	.52
Methylene Blue, tech. 100 lb kgs.	D	1.00	1.50
USP, medicinal 5 lb cans.....	D	2.25	2.60
Viebler's Ketone, 225 lb bbls..	D	...	3.75
Milk, powd. 150 lb bbls.....	D	...	.14
Milk Sugar, see sugar of milk			
Mineral Oil, see oil mineral			
Monochlorobenzene, see chlorobenzene			
Monothylaniline, 900 lb drs....	D	...	1.00
Monomethyl paramidophenol sulfate	...	...	...
100 lb drs.....	D	...	4.00
MORPHINE Sulfate, USP 5 oz. tins	...	...	...
10 oz.	D	...	6.35
Acetate, 5 oz. tins 10 oz. lots..	...	...	6.35
Hydrobromide, 5 oz. tins 10 oz.	...	...	...
lots	D	...	6.35
Hydride, 5 oz. tins 10 oz.	...	...	...
lots	D	...	6.35
Diacetyl Alk., 1/4 oz. vials. 10	...	...	...
oz.	D	...	10.20
Hydride, 1/4 oz. vials. 10 oz. oz.	...	...	...
Ethyl Hydride, 1/4 oz. vials. 10	...	...	...
oz.	D	...	10.45
Small Sizes: 1/4 oz. vials, 50c extra;			
1/4s 25c extra; single oz. vials, 7c ex-			
tra, over price for 5 oz. tins. 25c.			
lots in 5 oz. tins, 10c. or lower than			
above schedule. Less than 10 oz. lots			
15c. or higher than above schedule.			
Musk Ambrette, 1 lb cans.....	D	14.50	16.50
Ketone, 1 lb cans.....	D	13.00	14.00
Xylene, 5 lb cans.....	D	2.75	3.00

NAPHTHA, Solvent, 110 gal. drs.	...	...	...
whs.	gal	...	.40
8000 gal. tank cars wks.....	gal	...	.35
NAPHTHALENE, Flake, 175 lb bbls.	...	...	...
whs.	D	...	.07
Bbls, c/l wks.....	D	...	.06 1/2
Bbls., second hands NY.....	D	.07 1/4	.07 1/2
Balls, 250 lb bbls. wks.....	D	...	.08
Bbls. c/l wks.....	D	...	.07 1/4
Bbls., second hands NY.....	D	...	.08
Crushed, bgs., wks.....	D	...	.08
Crude, imp. bgs.....	D	.03 1/4	.04
Nerolin, 1 lb tins.....	D	1.75	2.00
Nickel Metal, electrolytic 100 lb	...	...	...
kegs	D	...	.30
Ingot, 100 lb kegs.....	D	.20	.32
Salt, single 400 lb bbls. NY..	D	.11	.12
Double, 400 lb bbls. NY.....	D	.10	.11
Oxide, 100 lb kegs NY.....	D	.40	.42
Sulfate, 450 lb bbls	D	.07	.07 1/4
Nitre Cake, bulk wks.....	ton	6.50	8.00
500 lb bbls.....	ton	9.00	9.75
Nitrobenzene, crude, 1000 lb drs.	...	...	...
wks.	D	.09 1/2	.10
Redistilled, 1000 lb drs. wks.	D	.10	.11
Nitronaphthalene, 550 lb bbls..	D	.20	.21
Nitrotoluene, mixed 1000 lb drs.	...	...	...
wks.	D	.14	.15
Oil Fuel, see Fuel Oil			
OIL MINERAL, wh. 50 gal. bbls. gal	1.00	1.35	
Oil Mirbane, see nitrobenzene			
Opium, see crude drugs			
Orange Mineral, 800 lb casks NY..	D	.15 1/4	.16
500 lb bbls. NY.....	D	.15 1/4	.16 1/4
Ortho-Aminophenol, 50 lb kegs..	D	...	2.00
Ortho-Anisidine, 100 lb drs.....	D	...	...
Ortho-Dichlorobenzene, 1000 lb drs.	...	...	...
wks.	D	.08	.08
Ortho-Nitrochlorobenzene, 1200 lb
dr. wks.	D	.18	.20
Ortho-Nitrophenol, 350 lb 3 bbls. D	1.25

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Chemicals

Ortho-Nitrotoluene, 1000 lb. drs. wks.09	: .10	Para-Phenylenediamine, 350 lb. bbls.	1.45	: 1.55	Phosphorus, red 110 lb. cs. wks.	: ...
Ortho-Toluidine, 350 lb. bbls. ....	.14	: .16	Para-Toluene-Sulfonamide, 175 lb. bbls. ....	.40	: .41	Imported, 112 lb. cases ....	...	: ...
Oxall, USP 5 lb. bot. ....	...	: 3.00	Para-Toluene-Sulfonchloride, 410 lb. bbls. wks. ....	.25	: .30	Yellow, 110 lb. cs. wks. ....	.35	: .40
PALLADIUM, metal 10 oz. lots on 51.00 : 53.00			Para-Toluidine, 350 lb. bbls. wks. ....	.90	: 1.00	Imported, 112 lb. cases ....	...	: .30
Pancratin, USP 5 lb. bot.	1.35	: 1.40	PARIS GREEN			Phosphorus Trichloride, 175 lb. cyl. wks. ....	...	: .45
Papain, 1 lb. bot.	1.85	: 2.00	Arsenic Basis, 500 lb. kegs. ....	.27	: .29	Phthalic Anhydride, 175 lb. bbls. ....	.30	: .35
Paraffin, ref'd 200 lb. cs. slabs			Kegs, 100 lbs. ....	.32	: .33	Phloerapine Hydrate, USP 25 oz. lots, 1 oz. vials. ....	...	: 7.50
120-125 Deg. M. P. ....	.03 1/4	: .03 1/4	Kits, 56, 28, 14 lbs. ....	.31	: .33	Nitrate ....	...	: 7.50
125-130 Deg. M. P. ....	.04	: .04 1/4	Packages, 5 and 2 lbs. ....	.32	: .33	Single ounces ....	...	: 5.75
130-135 Deg. M. P. ....	.04	: .04 1/4	Packages, 1 lb., 1/2, 1/4 lb. ....	.34	: .38	Alkaloid, 15 gr. vls. ....	...	: .75
135-140 Deg. M. P. ....	.05	: .06 1/4	Paris White, see whitening, French			Piperazine Hydrate, 1 lb. bot. ....	...	: 16.00
Para-Aminocetanilid, 100 lb. kegs.	1.05	: 1.15	Pepsin, USP 5 lb. bot.	2.25	: 2.50	Pitch, Coal-Tar, wks.	30.00	: 33.00
Para-Aminophenol, 100 lb. kegs. ....	...	: 1.40	PETROLATUM, green 300 lb. bbls. ....	.03 1/4	: .03	Plaster Paris, tech. 250 lb. bbls. ....	...	: 3.30
Hydrochloride, 100 lb. kegs. ....	...	: 1.65	Dark Amber 300 lb. bbls. ....	.03 1/4	: .04	True Dental, 300 lb. bbls. ....	...	: 4.50
Para-Dichlorobenzene, 50-300 lb. bbls. wks. ....	.17	: .20	Light Amber, 300 lb. bbls. ....	.04 1/4	: .05	Platinum, metal soft 10 oz. lots—cs	...	: 116.00
25-50 lb. kegs. ....	.18	: .22	Cream White, USP 800 lb. bbls. ....	.07	: .07 1/4	Podophyllin, 5 lb. bot.	5.25	: 5.50
Formaldehyde, 100 gal. drs. ....	...	: .35	Lily White, USP, 300 lb. bbls. ....	.09	: .09 1/4	Second Hands ....	...	: ...
Formaldehyde, USP 100 lb. cs. ....	.52 1/2	: .55	Snow White, USP, 300 lb. bbls. ....	.12 1/4	: .13	POTASH, CAUSTIC, solid 88-92% 700 lb. drs. wks. ....	.09	: .09 1/4
Para-Nitroacetanilid, 300 lb. bbls. ....	.55	: .60	PHENOL, see also acid carboic			Imp., 88-92% 700 lb. drs. NY. ....	.07 1/4	: .07 1/4
PARA-NITROANILINE, 300 lb. bbls. wks. ....	.74	: .75	American makers, drums wks. ....	.35	: .50	USP, by alcohol 5 lb. cans. ....	.46	: .48
Para-Nitrochlorobenzene, 1200 lb. drs. wks. ....	.21	: .30	Open market, 950 lb. drs. ....	.37	: .38	cases ....	.30	: .35
Para-Nitro-ortho-Toluidine, 300 lb. bbls.	2.75	: 2.85	Natural 240 lb. des. drs. wks. ....	...	: .28	POTASSIUM Acetate, USP, 100 lb. kegs. ....	.28	: .29
Para-Nitrophenol, 185 lb. bbls. ....	.75	: .80	Imported, 336 lb. des. drs. ....	...	: ...	Bicarbonate, crys. 220 lb. bbls. ....	.08	: .09
Para-Nitrosodimethylaniline, 120 lb. bbls.	1.35	: 1.30	Phenolphthalein, USP 100 lb. drs. ....	...	: 1.50	Bichromate, crys. 900 lb. cases wks. ....	.10 1/4	: .11
Para-Nitrotoluene, 350 lb. bbls. ....	.50	: .60	5 lb. cans, 100 lb. lots.	1.55	: 1.60	Powd., 900 lb. cases wks. ....	...	: .13
Para-oxo-Benzaldehyde, 100 lb. kegs.	1.50	: 1.60	Phenylacetaldehyde, dom. 1 lb. bot.	9.00	: 11.00	Binoxalate, 300 lb. bbls. ....	.33	: .34
Para-Phenetidin, 500 lb. drs.	1.55	: 1.80	Imported	12.00	: 14.00	Bisulfate, C.P. 5 lb. cans. ....	...	: .30
			Phenyl-Alpha-Naphthylamine 100 lb. kegs. ....	...	: ...	100 lb. kegs. ....	...	: .22
			Phenylethylalcohol, 1 lb. bot.	8.00	: 9.00	Bromate, 100 lb. cs. ....	...	: .45
			Imported	8.50	: 10.00	BROMIDE, USP cryst. 450 lb. bbls. ....	...	: .26
			Phosgene, 100 lb. cylinders. ....	...	: 1.00	Granular, 300 lb. bbls. ....	...	: .26
			Phosphorus Oxichloride, 175 lb. cyl.35	: .40	Cases 100 lb.	: .17
						Imported, USP, 220 lb. cs.17	: .18



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Chemicals

POTASSIUM—(Continued)

CARBONATE, 80-85% calc.		
800 lb cks.06%	.06%
80-85%, hydrated, 800 lb cks.07%	.07%
90-95% casks ....	.07	.07%
96-98% casks ....	.07%	.07%
99% casks ....	.09%	.10
USP, 100 lb kgs. ....	.11	.12
Chlorate, crys. 112 lb kgs. c/l wks. ....	.08%	.08%
Imp. 112 lb kgs NY ....	.07	.07%
Powd., 112 lb kgs wks ....	.08%	.09
Imp. kgs NY ....	.06%	.07%
Pyrotechnic, fine powd. NY ....	.08	.09
USP, fine crys. 110 lb kgs NY ....	.08	.09
Citrate, USP 10 lb cans ....	.63	.66
Cyanide, 110 lb cans ....	.45	.50
Glycerophosphate, 75% Soln. 25 lb tins	1.65	1.70
Guaicol Sulfonate, 5 lb cans, 10 lb	1.50	1.75
Hypophosphite, 10 lb cans ....	...	.85
Iodide, USP, 100 lb cases	3.75	3.85
Second Hands, cases ....	...	3.65
Lactophosphate, 4 oz bot. ....	...	.90
Metabisulfite, 300 lb bbls. ....	...	.23
Imp., 300 lb bbls. ....	.14	.16
Muriate, 80%, 200 lb bags, NY K ₂ O unit ....	...	.63
Nitrate, see Saltpetre		
Oxalate, neutral, 100 lb kgs. ....	.40	.45
Perchlorate, 112 lb kgs. ....	.09	.10
Permangan, USP, crys. 112 lb drs. ....	.16%	.18%
Prussiate, red, 100 lb bbls. ....	...	.67
500 lb casks ....	...	.65
Prussiate, yellow, 500 lb casks. ....	.30	.34
Salicylate, 25 lb cans. ....	.70	.72

POTASSIUM—(Continued)

Sulfate, 200 lb bags, NY K ₂ O unit	...	.93
USP, VIII, 100 lb kgs. ....	.18	.20
Sulfocyanide, CP 25 lb jars. ....	...	.70
Tartrate, neutral, 100 lb kgs. ....	...	.53
Titanium Oxalate, 200 lb bbls. ....	.30	.32
Pumice Stone, lump, 250 lb bbls. ....	.04%	.06
Lump, bags ....	.03%	.05
Powdered, 350 lb bbls. ....	.02%	.03
Pyridine, 50 gal. drums.	4.00	4.25
QUICKSILVER, see Mercury		
Quinidine Alk., 100 oz tins. ....	.70	.75
Sulfate, 100 oz tins. ....	...	.50
Quinoidine, see Chinoidin		
QUININE SULFATE, USP,		
American, 100 oz tins. ....	...	.50
1 oz tins, 100 oz lots. ....	...	.57
Dutch, 100 oz tins. ....	...	.49
Java, 100 oz tins. ....	...	.49
Japanese, 100 oz tins. ....	...	.49
QUININE ALK., USP, 100 oz tins.		
Acetate ....	...	.67
Arsenate ....	...	.88
Benzonate ....	...	.38
Bisulfate, USP ....	...	.50
Citrate ....	...	.62
Dihydrate, USP ....	...	.66
Dibromide ....	...	.66
Dicarbonate, 10 oz tins. ....	...	2.50
Ethyl Carbonate, 16 oz tins. ....	...	.95
Ferrocyanide ....	...	.38
Formate ....	...	.35
Glycerophosphate ....	...	.88
Hydriodide ....	...	.88
Hydrobromide, USP ....	...	.62
Hydrochloride, USP ....	...	.62
Hydrochlorosulfate ....	...	.66

QUININE—(continued)

Hydride & Urea, USP. ....	...	.88
Hypophosphite ....	...	.83
Lactate ....	...	.78
Phenolsulfonate ....	...	.88
Phosphate ....	...	.74
Salicylate, USP ....	...	.63
Tannate, USP ....	...	.45
Tartrate ....	...	.84
Valerate ....	...	.89
Small Sizes: 1 oz vials or cans,		
50 oz lots, 5 oz extra; 5 oz cans,		
50 oz lots 2 oz extra; 25 oz cans,		
50 oz lots, 2 oz extra; single 1 oz		
vials or cans, 5 oz extra. All minor		
quinine salts sold and quoted basis		
100 oz lots in 100 oz cans. Sulfate		
and bisulfate sold basis 100 oz		
lots in 100 oz cans. Smaller orders		
or containers extra as above		
schedule.		
N SALT, 250 lb bbls. wks. ....	.55	.70
Red Lead, see lead oxide		
Red Precipitate, see mercury.		
Resorcin, see resorcinol.		
Resorcinol tech. 100 lb kgs.	1.50	1.55
USP, 25 lb cans	2.25	2.35
Rochelle Salt, USP, 225 lb bbls. ....	...	.21
Imp. USP, 300 lb bbls. ....	.20	.21
Rosewater, triple, 5 gal. dems. ....	.90	1.10
Rotten Stone, lump imp., bbls. ....	.07	.09
Lump selected, bbls.09	.12
Powdered, bbls.02	.05
Domestic, bags, mines.	24.00	30.00



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Chemicals

SACCHARIN, USP, 1 lb cans, 25 lb			Soap, Castile, 40 lb bxs..... lb			SODIUM ACETATE, crys 450 lb bbls		
Soluble, USP, 1 lb cans, 25 lb. lb	1.90	: 2.00	Powd. USP, 250 lb bbls..... lb	.28	: .29	wks..... lb	.05%	: .05%
Safrol, 60 lb cans..... lb	.55	: .60	Green, USP, 150 lb kegs..... lb	.07	: .07½	Ton lots, bbls wks..... lb	...	: .05%
Sal Ammoniac, see Ammon. Chloride			Soapstone, see Talc, crude			Imp. 500 lb casks..... lb	...	: .05%
Sallein, USP, 1 lb cartons, 25 lb. lb	5.00	: 5.25	SODA ASH, 58% light bgs NY			Aluminum Sulfate, see alum soda.		
Salol, USP, 100 lb drums..... lb	.80	: .85	flat, ex-warehouse..... 100 lb	...	: 2.00	Benzoate, USP, 100 lb bags.. lb	.65	: .68
Salt Cake, c/l f.o.b. wks..... ton	...	: 25.00	Bbls., ex-warehouse. 100 lb	...	: 2.25	Bicarbonate, 400 lb bbls NY 100 lb	...	: 2.25
SALTPETRE, Double Refined			Contract, Basis 58% bags c/l	1.45	: 1.50	Bbls. c/l wks..... 100 lb	...	: 2.00
Granular, 400-500 lb bbls.,			wks..... 100 lb	1.45	: 1.50	112 lb kegs wks..... 100 lb	...	: 2.25
c/l wks..... lb	...	: .06½	Prompt and spot, Basis 58% bags	1.51	: 1.56	112 lb kegs, NY..... 100 lb	...	: 2.50
Less c/l works, bbls..... lb	...	: .06½	c/l wks..... 100 lb			Bichromate, 600 lb casks wks.. lb	.08½	: .08½
Large Crystals, 350-400 lb bbls.,			Soda Ash, 58% dense, bags ex-			Casks, c/l wks..... lb	...	: .08
c/l wks..... lb	...	: .08	warehouse, NY..... 100 lb	...	: 2.07	Casks, NY..... lb	...	: .08½
Small Crystals, 350-400 lb bbls.,			Bbls., ex-warehouse. 100 lb	...	: 2.30	Bisulfite, dry powder, 500 lb		
c/l wks..... lb	...	: .07½	Contract, Basis 58% bags c/l	...	: 1.51	bbls., wks..... lb	...	: .04½
Powdered, bbls. c/l wks..... lb	...	: .07½	wks..... 100 lb	...	: 1.51	Solution, 32-40°, 500 lb bbls	1.25	: 1.75
Imported, 500 lb bbls., NY..... lb	...	: .07	Pmpt. and spot, Basis 58% bags	1.56	: 1.62	wks..... 100 lb	...	: 1.05
Santonin USP, 1 lb bot..... lb	173.00	: 175.00	c/l wks..... 100 lb	1.56	: 1.62	Bromate, 100 lb cs..... lb	...	: 1.05
Powd. 1 lb bot..... lb	174.50	: 176.50	Prices on soda alkalies are based on actual			Bromide, USP, 500 lb bbls..... lb	...	: .25
Saponin, ex Quillaja, 5 lb tins... lb	1.25	: 1.56	percentages and not N. Y. & L. test.			Cases, 100 lb..... lb	...	: .26
Schaeffer's Salt, 250 lb bbls. wks.. lb	.60	: .65	SODA, CAUSTIC, 76% solid, rosale,			Imp. USP, 112 lb cs..... lb	.18	: .19
Saponin, ex Quillaja, 5 lb tins... lb	1.00	: 1.25	NY flat..... 100 lb	3.30	: 3.50	Cacodylate, USP, 5 lb bot,	6.00	: 6.25
Satin, White..... lb	.01½	: .02	76% solid drs. ex-warehouse	...	: 3.70	25 lb..... lb	...	
Selditz Mixture, 225 lb bbls..... lb	.17	: .18	NY..... 100 lb	...	: 3.70	Carbonate, sal soda, 350 lb bbls	1.30	: 1.35
SILICA			Contract basis 76% c/l wks.	...	: 3.16½	lc/ NY..... 100 lb	1.10	: 1.30
Crude, bulk, mines..... ton	10.00	: 12.00	100 lb	...	: 3.16½	Werks c/l..... 100 lb	...	: 2.45
Refined, floated, bags..... ton	18.00	: 30.00	Pmpt and spot, Basis 60%	3.25½	: 3.29	lc/..... 100 lb	...	: .09
Air floated, bags..... ton	32.00	: 50.00	c/l wks..... 100 lb	...	: 3.25½	keg..... lb	.08	: .09
Extra, floated, bags..... ton	55.00	: 65.00	Contract 76% low grade c/l	...	: 3.35½	Chlorate, 112 lb kegs, wks... lb	.06½	: .07
SILVER, metal, American..... oz	...	: .99%	wks. flat..... 100 lb	...	: 3.35½	Imported, 112 lb kegs..... lb	...	: .06½
Foreign..... oz	...	: .65%	Ground & flake, 76% pmpt and	...	: 3.65	Chloride, tech. 200 lb bags.. ton	12.00	: 13.00
Colloidal, 16 oz bot..... oz	...	: 2.80	spot, wks c/l drs..... 100 lb	...	: 3.65	C. P. 300 lb bbls..... lb	.05	: .06
Silver Iodide, 16 oz bot..... oz	...	: .88	Contract, 76% drums, c/l wks	...	: 3.60	Citrate, USP, IX, 100 lb kegs. lb	...	: .63
Nitrate, USP, 200 oz bot..... oz	.44%	: .44%	flat..... 100 lb	...	: 4.15	USP, VIII, 100 lb kegs... lb	...	: .55
Nucleinate, 16 oz bot..... oz	.32	: .37	76% drs. ex-warehouse NY 100 lb	...	: .19	Cyanide, 96-98%, 100 lb cases	...	: .23
Proteinates, 16 oz bot..... oz	.34	: .39	USP, stick, 10 lb cans..... lb	.19	: .21	wks..... lb	...	: .23
			Pure, stick, by alcohol..... lb	.25	: .27	Ton lots, wks..... lb	...	: .23
						73-76%, 100 lb cases, wks. lb	...	: .20½
						125-128%, 200 lb cs..... lb	...	: .20
						120-125%, 200 lb cs..... lb	...	: .19½
						Fluoride, 350 lb bbls, NY imp. lb	...	: .09



DIAMOND "TESTED"

MEANS
ACTUAL 76%

Manufactured and Sold by

DIAMOND ALKALI COMPANY
 PITTSBURGH - PENNSYLVANIA

Chemicals

SODIUM—(Continued)

Glycerophos, USP, crys 25 lb cans	1.70	1.75
Powder, 25 lb tins	1.75	1.80
Solution, USP 25 lb tins	1.00	1.05
Hydroxide, see Soda Caustic		
Hypochlorite, Soln, 100 lb cys. lb .....	...	.06
14½% soln, 50 lb cys. lb .....	...	.04
Hyposulfite, 200 lb bbls, fob, wks. lb .....	.19	.22
Hypophosphite, USP, 25 lb cans lb .....	...	.75
HYPOSULFITE, tech. pea crys.,		
375 lb bbls, wks. 100 lb	2.90	3.30
Bbls. c/l wks. 100 lb .....	...	2.75
100 lb kegs wks. 100 lb	3.00	3.60
Granulated, bbls. wks. 100 lb	3.15	3.55
Bbls. c/l wks. 100 lb .....	...	3.00
Kegs wks. 100 lb	3.25	3.85
Regular crystals 100 lb	2.65	2.90
Iodide, USP, 25 lb jars .....	...	4.25
Metanilate, 150 lb bbls. ....	.55	.60
Naphthionate, 300 lb bbls. ....	.60	.62
Nitrate, crude, 95%, 200 lb bgs c/l NY .....	...	2.42½
Futures, NY 100 lb .....	...	2.45
Double Refined, 400 lb bbls gran c/l wks. ....	...	.04½
Nitrite, 500 lb bbls. wks. ....	.07½	.07½
Bbls. spot, makers. ....	...	.07½
Imp. 650 lb casks. ....	...	.07½
Ortho-Chloro-para-Toluene Sulfonate, 175 lb bbls. wks. ....	.25	.27
Oxalate, neutral, 100 lb kegs. lb .....	...	.47
Perborate, 275 lb bbls. ....	...	.24
Imp. 225 lb drs. ....	.18	.19
Peroxide, 200 lb cases. ....	.25	.27
Phosphate, di-sodium, tech 550 lb bbls. ....	.03½	.03½
USP, gran. 275 bbls. ....	.07	.07½
Imp. gran. ....	.05½	.06
USP, recryst 275 bbls. ....	.10	.11
Mono-sodium 100 lb kegs. ....	.24	.26
Tri-sodium tech. c/l, bbls. lb .....	.04½	.05
Picramate, 100 lb kegs. ....	...	.60

SODIUM—(Continued)

Para-Toluene Sulfonate, 175 lb		
bbls .....	.08	.09
PRUSSIAN, yellow, 450 lb cks. lb	.13	.14
250 lb bbls. ....	...	.15½
Pyrophosphate, 100 lb kegs. ....	.18	.22
Salicylate, 100 lb kegs. ....	.47	.52
Second Hands, USP, kegs. lb .....	.47	.49
Silicate, 60° 700 lb bbls. f.a.s. NY .....	...	2.00
Works, 1000 lb drums. ....	...	1.90
Works, tanks .....	...	1.75
40° domestic, 700 lb c/l f.o.b. wks. ....	...	.80
Works, 1000 lb drums. ....	...	.82½
Works, tanks .....	...	.75
Spot, drums, bbls.	1.30	1.50
Silicofluoride, 450 lb bbls, NY. lb .....	.07½	.07½
Sulphate, see Glauber's Salt.		
Sulfide, 60% solid, 650 lb drs lc/l wks. ....	.05	.05½
Drs. c/l wks. ....	...	.04½
Imp. 700 lb drs. NY. ....	.03	.03½
60% broken, 650 lb drs wks. lb .....	.05	.05½
Imp. 500 lb drs. NY. ....	.03½	.03½
30% crys. 400 lb bbls. wks. lb .....	.02½	.02½
Imp., 400 lb bbls. ....	.02½	.02½
Sulfite, crys, 400 lb bbls wks. lb .....	.03½	.03½
Desiccated, 400 lb bbls. ....	.09½	.10
Sulfocarbolate, USP, 100 lb kegs .....	.42	.44
Sulfocyanide, 400 lb bbls. ....	.45	.47
Tungstate, crys 100 lb kegs. lb .....	...	.55
Desiccated, kegs .....	...	.65
Solvent Naphtha, see Naphtha		
Sparteine Sulfate, USP. 25oz bulk. oz .....	.60	.70
Single oz. vial. ....	...	.60
Starch, rice, 140 lb bags. ....	.09	.10

STRONTIUM Bromide, USP, 100 lb

kg .....	...	.33
Carb. 600 lb bbls. wks. ....	...	.07
100 lb kegs wks. ....	...	.08
Iodide, USP, 25 lb jars. ....	...	4.00
Nitrate, 600 lb bbls, wks. ....	...	.11½
Imp., bbls, NY. ....	.09½	.10
Salicylate, USP, 100 lb kegs. lb .....	...	.85
STRYCHNINE Alkaloid, USP, crys		
100oz tins .....	...	1.15
Alk. powd, USP. ....	...	1.65
Acetate .....	...	1.05
Glycerophosphate, USP .....	...	1.05
Hydrobromide .....	...	1.05
Hydrochloride .....	...	1.05
Hypophosphite .....	...	1.15
Nitrate, USP .....	...	1.05
Phosphate .....	...	1.05
Sulfate, USP, crys powd. ....	...	.84
Saccharinate .....	...	1.15
Strychnine preparations quoted bases 100oz lots in 100oz tins. Small Sizes: ¼oz vials, 50c extra; ½oz vials, 25c extra; single ounce vials, 7c extra. Lots of 25 ozs. 5c higher than above schedule. Lots of less than 25 ozs. 10c higher per oz.		
Sugar Milk, USP, 200 lb bbls. ....	.21	.22
Second Hands, USP, bbls. ....	.21	.22
Sulfonal, see Sulfonmethane.		
Sulfonmethane, USP, 5 lb bxs. ....	...	3.50
Sulfonethylmethane, USP, bxs. ....	...	4.50
SULFUR, crude, bulk, c/l NY. ....	...	10.00
Crude, f.o.b. mines.	14.00	15.00
Brimstone, 250 lb bgs, c/l 100 lb	1.75	1.95
Less c/l bags NY	1.85	2.10
Roll, 500 lb bbls c/l NY. ....	...	2.15
Less c/l bags NY. ....	...	2.20
Flour, Heavy, 290 lb bbls, 100 lb	2.50	3.05
Light, 100%, 260 lb bbls, 100 lb	2.60	3.15
Rubbermakers 100%, 240 lb bbls, NY	2.60	3.15



SOLVAY

STANDARD IN
SODA
SINCE 1881

Sales Agent

WING & EVANS

INC.

NEW YORK - 40 Rector St.

CHICAGO - 30 N. Dearborn St.

CLEVELAND - 1848 Scranton Road

PITTSBURG - 331 Fourth Ave.

BOSTON - 77 Summer St.

CINCINNATI - Winton Place

DETROIT - Real Estate Exchg. Bldg.

SYRACUSE -

As the largest producer of alkali, we recognize our responsibility of not only holding up, but raising the high standards of quality we have set during the past forty years. That's why Solvay works to a more rigid set of standards in manufacture.

SODA ASH CAUSTIC SODA MODIFIED SODA
CAUSTICIZED ASH

Chemicals

SULFUR—(continued)

Commercial, 99%, 150 lb bgs		
NY	1.35	: 1.65
For Disting, 99%, 100 lb bgs NY	2.00	: 2.50
Flowers, 100%, 240 lb bbls NY	3.00	: 3.55
Precipitated, 125 lb bbls NY .....	.14	: .16
Lac, 125 lb bbls NY .....	.07	: .10
Sulfur Chloride, red, 700 lb drs wks .....	.05	: .06
150 lb chgs wks .....	.05	: .06
Yellow, 700 lb drs wks .....	.05	: .06
150 lb chgs wks .....	.05	: .06
Sulfur Dioxide, 100 lb cyl .....	.08	: .08½
Iodide, USP, VIII, 5 lb bot .....	.45	: .55
Sulfuric Ether, see Ether.		
Sulfuryl Chloride, 600 lb drs .....	.70	
TALC, Italian, 220 lb bags NY	35.00	: 40.00
Refined, white, bags	42.00	: 55.00
French, 220 lb bags NY	35.00	: 30.00
Refined, white, bags	32.00	: 45.00
Dom., crude, 100 lb bags NY	10.00	: 15.00
Refined, 100 lb bags NY	18.00	: 25.00
Tartar Emetic, tech, 700 lb bbls .....	.26	: .27
USP, 300 lb bbls .....	.28	: .28½
Terpin Hydrate, USP, 100 lb kegs .....	.70	: .72
Terpineol, CP 1000 lb drums .....	.50	: .55
Cans, 50 lb .....	.55	: .57
Imported, cans, 25 lb	1.00	: 1.25
Terpenyl Acetate, 25 lb cans	1.65	: 1.85
Terra Alba, No. 1, 300 lb bbls	1.85	: 1.90
No. 2, bbls	1.35	: 1.55
Theobromine Alk., 5 lb cans	4.00	: 4.50
and Sod. Salicylate, 1 lb bot	2.80	: 2.90
Thiocarbamid, 170 lb bbls .....	.28	: .30
Thymol, USP, 100 lb cans	3.00	: 3.50
Iodide, 5 lb boxes .....	.675	
TIN, Metal Strate, NY	40.62	
American standard, NY	40.12	
99% American, NY	39.75	
C.P. mossy, 25 lb bxs NY		

Tin—(continued)

Bichloride, 50% soln 100 lb bbls wks .....	.11½	
Crystals, 500 lb bbls wks .....	.30½	
100 lb kegs wks .....	.31	
Oxide, 400 lb bbls wks .....	.47	
100 lb kegs wks .....	.49	
Tetrachloride, 1000 lb drs wks .....	.25	
Telluride, 850 lb bbls .....	.95	: 1.00
Sulfate, 350 lb bbls	1.00	
Toluene, 8000 gal tank cars, wks gal .....	.29	: .30
110 gal drs wks .....	.34	: .35
Toluidine, Mixed, 900 lb drs wks .....	.31	: .32
Tribromophenol, 100 lb cases	1.00	
Trional, see Sulfonethymethane.		
Triphenyl Phosphate, 450 lb bbls .....	.60	
Tripoli, 500 lb bbls	2.50	: 3.00
Tungsten NY	8.25	: 8.50
UREA, pharm 112 lb cases .....	.40	
VANILLIN, USP, 400 lbs cans .....	.41	: .41½
Cans, 80 lbs .....	.41½	
Cans, 16 lbs .....	.42½	
Verdigris, see Copper Subacetate		
Vermillon, Amer. 100 lb kegs .....	.35	
English, kegs	1.30	
Veratrine Sulfate, 1 oz vial	2.50	
Hydrochloride, 1 oz vial	2.50	
Veronal, see Acid Diethylbarbituric		
WHITE LEAD, see lead, white.		
White Precipitate, see mercury.		
Whiting, 200 lb bags, c/l wks ton	14.00	: 16.00
Bags, 15 lb NY	22.50	
Gilders, bags, NY	13.50	: 15.00
French, bags, NY	18.00	
English, bags, NY	23.00	
Witch Hazel Extract, 50 gal bbls gal	1.20	: 1.25

XYLENE, 2° dist range, nitration

thk wks		
110 gal drs NY .....		.85
5° dist. range, 8000 gal tanks wks		
110 gal drs wks		
Commercial, 110 gal drs wks gal		
Tanks, wks		
Xylidine, 900 lb drs .....		.60
YARA YARA, 1 lb tins	1.75	: 2.00
Yohimbin Hydrochloride, 1 oz vial	7.00	: 7.50
ZINC, METAL, high grade, slabs c/l NY		9.00
Common Slabs, c/l NY	6.10	: 6.15
Mossy, 25 lb bxs NY .....		.16
Ammonium Chloride, powd., 400 lb bbls .....	.07½	: .08
Carb. tech, 150 lb kegs NY .....		.18
USP, 100 lb kegs .....		.30
Chloride, fused, 600 lb drs wks .....		.08
Drs. c/l wks .....		.08½
Imp. drs. NY .....	.05½	: .06
Granulated, 500 lb bbls wks .....	.08	: .09
Imported, drs, NY .....	.06½	: .07
USP, 25 lb jars .....		.25
Cyanide, 100 lb drs .....	.42	: .43
Dust, 100 lb tins wks .....	.09½	: .10
500 lb bbls, kegs, c/l wks .....		.09
500 lb bbls, kegs, c/l wks .....		.08
Iodide, 5 lb bottles		5.20
Nitrate, 25 lb jars .....		.35
Oxide, Amer. 300 lb bbls wks .....	.08½	: .09
Bbls. c/l wks .....	.08½	: .08½
French, 300 lb bbls wks .....	.10½	: .12½
Bbl c/l wks .....	.10	: .12
Bags, c/l wks .....	.09½	: .10½
USP, 100 lb bbls. c/l .....		.16
Ton lots, wks .....		.17
Imported, white seal, bbls .....		.12½
Green seal, bbls .....		.16
USP, 100 lb bbls .....	.15	: .17
Stearate, USP, 60 lb bbls .....		.23
Sulfate, 400 lb bbls wks .....	.03½	: .03½
Bbls. c/l wks .....		.02½
USP, 100 lb kegs .....	.08	: .09
Sulfocarbonate, 100 lb kegs .....	.37	: .39

NITRATE
SODADOUBLE REFINED CRYSTALS
GRANULATED OR POWDERED

BATTELLE & RENWICK

Estb. 1840

Manufacturers

Incp. 1902

80 Maiden Lane, New York, N. Y.

Barrett
Standard

Pure Benzol
Pure Toluol
Benzol 90%
Nitration Xylol
Commercial Xylol
Solvent Naphtha
Extraction Benzols
Denaturing Benzols
Special Fractions of
Coal Tar Light Oils

For shipment in tank cars or
one hundred gallon drums.

The Barrett Company

40 Rector Street B New York, N. Y.

Oils and Fertilizers

Oils

Castor, No. 1, 400 lb bbls. ....	.14%	.15
80 lb cases bbl	.15%	.18
No. 3, bbls. ....	.14	.14%
Blown, 400 lb bbls. ....	.15%	
China Wood, bbls., spot NY. ....	.24	
8000 gal. tks. NY. ....	.23	
July, Aug., forward, bbls. China. b	.23%	.24
Coast, tanks, Aug. forward. ....	.22%	.23
Cocunut Ceylon, 375 lb bbls. NY. b	.09%	.09%
8000 gal. tanks, NY. ....	.08%	
Ochun, 375 lb bbls. NY. ....	.10%	.11
Tanks, NY. ....	.09%	.09%
Manila, tanks, P. Coast. ....	.08	
Edible, bbls. NY. ....	.10%	.10%
Cod Newfoundland, 50 gal. bbls. gal	.66	.68
Tanks, NY.		
Copra, bags bbl	.05	
Corn, ref. 375 lb bbls. NY. ....	.12%	.12%
Crude, tanks mills. ....	.07%	.08
Bbls. NY. ....	.10	.10%
P. S. Y., 100 bbl. lots NY. ....	.10%	
White, 100 bbl. lots NY. ....	.10%	
Winter yellow, 100 bbls. NY. ....	.10%	
Winter yellow, 100 bbls. NY. ....	.11%	
Degras, Amer. 50 gal. bbls. NY. b	.03%	.04
English, bbls. NY. ....	.04%	.04%
Neutral, bbls. NY. ....	.09	.14
Greases, choice white, bbls. NY. b	.08%	
Yellow bbl	.05%	
Brown bbl	.05%	
House bbl	.06	
Bone naphtha bbl	.06	
Sterring, Tanks, Coast. gal	.10	
Howe, 375 lb bbls. NY. ....	.11%	
Lard, prime steam bbls. ....	.12%	
Compound, bbls. ....	.12%	
LARD OIL, Edible prime, bbls. ....	.14%	
Off prime, bbls. ....	.12	
Extra bbls. ....	.11%	
Extra No. 1, bbls. ....	.11	
No. 1 bbls. ....	.10%	
No. 2 bbls. ....	.10	

LINSEED, raw c/l bbls. spot. gal	1.05	
Five bbls., raw gal	1.10	
Boiled, 5 bbl. lots. gal	1.12	
Double boiled 5 bbl. lots. gal	1.13	
Kaw, 1c/l bbls. gal	1.09	1.10
July, Aug., Sept., c/l bbls. gal	1.03	1.00
Imported, bbls., NY. gal	1.00	1.03
Tanks, NY. gal	.98	.99
Menhaden, crude, bbls. wks. gal		
Crude, tanks wks. Balt. gal	.48	.50
Light strained, tanks. gal		
Light strained, bbls. NY. gal	.80	.81
Yellow bleached, bbls. NY. gal	.82	.83
Blown, bbls. NY. gal	.90	.91
Neatfoot, 20° c.t. bbls. NY. b	.15%	.16%
30° cold test, bbls. NY. b	.15%	.15%
Prime, bbls. NY. b	.14%	
Oleo Oil, No. 1, bbls. NY. b		
No. 2, bbls. NY. b	.10%	.10%
No. 3, bbls. NY. b	.09	
OLIVE, denatured bbls. NY. gal	1.10	1.15
Edible, bbls. NY. gal	1.70	2.00
Foots, bbls. NY. b	.08%	.08%
Shipment b	.08%	.08%
Palm Lagos, 150 lb casks. b	.07	.07%
Niger casks b	.06%	.07
Bonny old Calabar, casks. b		
Palm Kernel, 1500 lb casks NY. b	.09	.09%
Peanut, refined bbls. NY. b	.16	.16%
Crude, mills buyers' tks. b		
Crude, bbls. NY. b	.12	.12%
Perilla, bbls. NY. b	.15%	.16
Poppseed, bbls. NY. gal	2.20	2.20
Rapeseed, refined bbls. NY. gal	.82	.83
Blown, bbls. NY. gal	.98	
Red Oil, distilled, bbls. b	.09%	.10
Saponified, bbls. b	.09%	.10
Salmon, 8000 gal. tks. Coast. gal		
Sesame, domestic edible bbls. gal	1.00	
Sod Oil, bbls. NY. gal	.45	

SOYA BEAN, crude tks. Coast. b	.09%	.09%
Crude, Tks. D.P., NY. b	.09	
Crude, bbls. NY. b	.11%	.12
Sperm, 38° c. t. bichd. bbls. NY. gal		.99
45° cold test, bichd. bbls. NY. gal		.94
STEARIC ACID, s.p. 200 lb bags. b	.12%	.13%
Double pressed, bags. b	.13	.13%
Double pressed, bgs., saponified. b	.13	.13%
Triple pressed, bgs., distilled. b	.14%	.14%
Triple pressed, bgs., saponified. b	.14%	.14%
Stearine, oleo, bbls. b		.08%
Lard, bbls. b		.13
Tallow, edible, tierces. b	.07%	.08
City extra, loose b		.06%
Tallow Oil, acidless tks. NY. b		.08%
Bbls., c/l NY. b		.10
Walnut, crude bbls. NY. b	—	—
Whale, nat. winter bbls. NY. b		.75
Richd. winter bbls. NY. gal	.78	.80
Extra Richd. bbls. NY. b	.81	.82
Crude, No. 1, tanks Coast. b		
Crude, No. 2, tanks Coast. b		
Crude No. 3, tanks Coast. b		

Fertilizer Materials

Ammon. Sulf. bulk wks. 100 lb	3.20	
Double bgs. f.a.s. NY. 100 lb	3.50	3.60
Blood, dried f.o.b. NY. unit		3.75
Bone, 3 & 50 ground steamed. ton		28.00
Raw, Chicago ton		30.00
Cyanide wks. unit	2.20	2.25
Fish Scrap, dried wks. unit	4.00	4.10
Acid, Bulk, 7 & 3 1/2, sav. unit	3.50	3.50
NITRATE SODA, NY. 100 lb		2.42%
Phosphate Rock, f.o.b. mines, Florida pebble, 68-78% ton	3.25	5.50
Tennessee, 70-75% ton	3.25	3.40
Phosphate Acid, 16% Bulk wks. ton	8.50	9.00
Potassium Murate, 80% unit		.68
Sulfate unit		.93
Steamed Bone Meal, NY. ton		35.00
Tankage, ground, NY. unit	3.50	4.10
High grade f.o.b. Chicago. unit	3.50	4.10



NITRIC ACID, C. P.

Spec. Grav. 1.42 7 lbs.

THE STANDARD OF PURITY

Acidity	70% HNO ₃
Fe	.00002%
H ₂ SO ₄	.00006%
Iodine	"Nil"
As	"Nil"
Cl	"Nil"
Nonvolatile	.0002

GENERAL CHEMICAL COMPANY
BAKER AND ADAMSON WORKS
EASTON, PENNSYLVANIA

MADE IN U. S. A.

W. F. GEORGE
CHEMICALS, INC.

General Offices:

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Soda Ash
Caustic Soda
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Albany, N. Y.
Newark, N. J.

Tannins and Dyestuffs

Naval Stores

(Carloads ex-yard N. Y.)

Spirits Turpentine, bbls.....gal	: .93
Wood Turpentine, stm. distd. bbls.gal	: .91
Destructive distilled, bbls.....gal	: .68
Pine Oil, stm dist'd, bbls, ....gal	: .70
Pitch, prime .....bbl	: 6.00
Rosins. (Sold in 600 lb bbls, gross for net, quotations based on a unit of 280 lb)	
B .....280 lb	: 5.80
D .....280 lb	: 6.00
E .....280 lb	: 6.00
F .....280 lb	: 6.00
G .....280 lb	: 6.00
H .....280 lb	: 6.00
I .....280 lb	: 6.00
K .....280 lb	: 6.00
M .....280 lb	: 6.00
N .....280 lb	: 6.25
WG .....280 lb	: 6.50
WW .....280 lb	: 7.00
Rosin Oil, first run, 50 gal. bbls.gal	: .47
Second run, bbls.....gal	: .49
Tar, kiln-burnt .....bbl	: 13.50
Retort .....bbl	: 12.50

Woods

Barwood, chips .....lb	.04%	.05
Camwood, chips .....lb	.09	.13
Diri Divi, pods 100-200 lb bags.ton	38.00	40.00
Fustic, sticks .....ton	30.00	35.00
Chips .....lb	.04	.06
Hemlock, bark .....ton	20.00	
Hyperic, chips .....lb	.06%	.07
LOGWOOD, sticks .....ton	28.00	30.00
Chips 150 lb bags .....lb	.02%	.03
Mangrove bark, African.....ton	33.00	
Bark, South American.....ton	25.00	30.00

Myrobalans, 150 lb bags J1.....ton	33.00
B1 .....ton	35.00
B2 .....ton	27.00
Nutgalls, see Crude Drugs.	
Oak bark, whole.....ton	20.00 23.00
Ground .....ton	23.00
Quercitron bark, rough.....ton	10.00
Ground .....ton	20.00 25.00
Sumac, Sicily, 160 lb bags.....ton	76.00 80.00
Virginia, 150 lb bags.....ton	35.00
Valonia Cups. 28-33% tan.....ton	34.00 36.00
Beard, 40% tan, 150 lb bgs.ton	58.00
Wattle bark, 150 lb bags.....ton	35.00

Extracts

Range of prices includes quality range for large quantity.

Annatto, fine .....lb	.26	.29
Archil, double 600 lb bbls.....lb	.16	.18
Triplis, 600 lb bbls.....lb	.17	.19
Coccol, 600 lb bbls.....lb	.18	.20
Chestnut, clarified, 25% tks. wks.lb	.02	.02%
Bbls, wks.....lb	.02%	.02%
Powd., 60% 100 lb bbls. wks.lb	.05%	.06
Decolorized, bbls. wks.....lb	.08	.09
Cudbear, English .....lb	.21	.23
Cutch, Rangoon, 100 lb bales.....lb	.13	.16
Borneo, solid, 100 lb bales.....lb	.04%	.05%
Liquid, 450 lb bbls.....lb	.10	.11
Tablets, 120 lb boxes.....lb	.13	.14
Flavine .....lb	.90	.95
Fustic, solid 50 lb boxes.....lb	.14	.18
Crystals, 100 lb boxes.....lb	.22	.24
Liquid, 51°, 600 lb bbls.....lb	.10	.14
Gal extract .....lb	.16	.18
Gambier, 25% liq. 450 lb bbls.....lb	.08%	.09%
Common, 200 lb cases.....lb	.10%	.11
Singapore cubes, 150 lb bags.....lb	...	...
HEMATINE, Paste, 500 lb bbls.....lb	.11%	.13%
Crystals, 400 lb bbls.....lb	.16	.20
Hemlock, 25% 600 lb bbls. wks.lb	.03%	.03%
Hyperic, 51°, 600 lb bbls.....lb	.15	.20
Indigo, Madras bbls.....lb	.85	.90
Manila, bbls.....lb	1.30	

Larch, 25%, 600 lb bbls, wks.....lb	.03%	.03%
Powd. 100 lb bags, wks.....lb	.07%	.08
Logwood, 51°, 450 lb bbls.....lb	.07%	.12%
Solid, 50 lb boxes.....lb	.15	.21
Madder, Dutch .....lb	.28	.30
Mangrove, 55% 400 lb bbls.....lb	.03%	.04
Myrobalans, 25% liquid bbls.....lb	.04	.05
50% solid, 50 lb boxes.....lb	.04%	.05
Oak, tanks wks.....lb	.04	.04%
23-25% liq. 600 lb bbls. wks.lb	.05	.05%
Osage Orange, 51° liquid.....lb	.07	.08
Powd. 100 lb bags.....lb	.14	.15
Ferrian Berries.....lb	.37	.30
QUEBRACHO, 35% liquid tks.....lb	.03%	.04
450 lb bbls.....lb	...	.04%
35% bleaching, 450 lb bbls.....lb	.04%	.05%
Solid 65% 100 lb bales.....lb	.05	.05%
Clarified bales .....lb	...	.06
Quercitron, 51° 450 lb bbls.....lb	.06%	.07%
Powdered, 100 lb boxes.....lb	.09	.13
Spruce, 25% liquid tanks wks.....lb	.01	.01%
Powd. 50% 100 lb bags wks.....lb	.02	.02%
Sumac, liquid 450 lb bbls.....lb	.07	.09

DYERS' SUNDRIES

Albumen, technical, egg 200 lb cs.....lb	1.06	1.10
Blood, domestic, 100 lb drs.....lb	.45	.55
Spray Yolk 150 lb cs.....lb	.45	.65
British Gum, 140 lb bags c/l 100 lb	...	4.24
Bags, lc/l .....100 lb	...	4.34
Dextrin, corn 140 lb bags c/l 100 lb	...	3.79
Bags, lc/l .....100 lb	...	3.89
Yellow, bags c/l .....100 lb	...	3.84
Potato 140 lb bags c/l .....lb	...	.07
Bags, lc/l .....100 lb	...	.07%
Prussian blue .....lb	...	.09%
Tapioca, 200 lb bags, lc/l.....lb	.60	.62
Sago Flour, 150 lb bags.....lb	.04%	.05
STARCH, powd. 140 lb bgs.c/l 100 lb	...	3.22
Bags lc/l .....100 lb	...	3.32
Pearl, 140 lb bags c/l .....100 lb	...	3.12
Potato, domestic, 200 lb bags.....lb	.04%	.05
Imported, bags duty paid.....lb	.05	.05%
Tartronic Flour, high grade bags.....lb	.06	.06%
Medium grade, bags.....lb	.04%	.05
Low grade, bags.....lb	.04%	.04%
Turkey Red Oil, bbls.....lb	.11	.12
Volk Oil, bbls.....lb35

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Crude Drugs

Aceroides Gum, yel.,	D	.18	: .20
ACONITE Leaves, bales.....	D	.25	: .27
Aconite Root, USP, bags.....	D	...	: .40
Agar Agar, 1, 200lb bales.....	D	...	: 1.45
No. 2, bales.....	D	...	: 1.85
No. 3, bales.....	D	...	: 1.30
Agaric, white, cases.....	D	...	: ...
Almonds, bitter bags bxs.....	D	.32	: .35
Sweet, bags.....	D	.45	: .46
Meal, tins, boxes.....	D	.28	: .30
Aletris Root, bags.....	D	.52	: .57
Alkanet Root, bags.....	D	.08	: .10
Alces, Barbadoes, 120lb bbls.....	D	.65	: .70
Cape, 400lb cases.....	D	.09	: .10
Curacao, 100lb cases.....	D	.08	: .08½
Socotrine, whole 100lb cs.....	D	.30	: .32
Althea Root, cut cases.....	D	.28	: .40
Whole bags.....	D	.09	: .10
Ambergris, black boxes.....	cs	...	: 8.00
Grey, boxes.....	cs	...	: 28.00
Ammoniac, tears, bags.....	D	1.35	: 1.40
Angelica Root, dom. bags.....	D	.14	: .15
Angostura Bark, bags.....	D	.08	: .10
Ashie, Levant bags.....	D	.17	: .17½
Star, cases.....	D	.12½	: .13
Spanish, bags.....	D	.27	: .27½
Ananias Seed, bags.....	D	.11½	: .12
ARABIC GUM,	D	...	: ...
White, No. 1, 200lb bags.....	D	.26	: .28
Seconds, 250lb bags.....	D	.24	: .26
Sorts, amber, 200lb bags, bbls.....	D	.14½	: .14¾
Powd., USP, 800lb bbls.....	D	.22	: .23
Areca Nuts, 150lb bags.....	D	...	: .09
Powd., 200lb bbls.....	D	...	: .12
Arnica Flowers, bales.....	D	.08	: .08½
Root, bags.....	D	.20	: .22
Arrowroot, Amer. powd. bbls.....	D	.06½	: .09½
St. Vincent, powd. bbls.....	D	.14	: .14½
Asafoetida, USP, 250lb cases.....	D	.25	: .28
Powd. 50lb bxs.....	D	.50	: .53
BALM GILEAD BUDS, bags.....	D	.42	: .44
Balmory Herb, bales.....	D	...	: .14

BALSAMS

Copaiba, Para. 80lb cs.....	D	.23	: .25
South American. 80lb cs.....	D	.23	: .29
Fir Canada, cans.....	gal	13.00	: 14.00
Oregon, bbls., cans.....	gal	3.25	: 3.40
Peru, 120lb cases.....	D	1.75	: 1.80
Tolu, 90lb cases.....	D	1.35	: 1.50
Bamboo Brier Root, bags.....	D	.06	: .07
Barberry Bark, tree bales.....	D	.22	: .24
Bayberry Bark, bales.....	D	.11	: .14
Wax, bbls.....	D	.28	: .30
Belladonna Leaves, bales.....	D	.18	: .19
Root, bags.....	D	.12	: .13
Bees Wax, white bbls.....	D	.37	: .39
Yellow, refined bbls.....	D	.22	: .23
Crude, bags.....	D	.20	: .21
Benzoin Gum, Siam, boxes.....	D	1.15	: 1.20
Sumatra, 80lb boxes.....	D	.30	: .32
Berberis Aquifolium Root, bags.....	D	.17	: .18
Beth Root, bags.....	D	.22	: .25
Blackhaw Bark, root, bales.....	D	.40	: .42
Tree, bales.....	D	.24	: .25
Rhod Root, bags.....	D	.12	: .14
Blueflag Root, bags.....	D	.23	: .25
Boldo Leaves, bales.....	D	.20	: .21
Ronset Herb, bales.....	D	.09	: .12
Borage Flowers, bales.....	D	.18	: .20
Bryonia Root, bags.....	D	.09	: .10
BUCHU LEAVES, short, 250lb	D	...	: ...
hales.....	D	.90	: .95
lest. bales.....	D	1.00	: 1.05
Long, bales.....	D	...	: ...
Buckthorn Bark, bales.....	D	.07	: .08
Burdock Root, bags.....	D	.18	: .20
Burgundy Pitch, dom. 110lb stands	D	...	: .05
Gross for net.....	D	...	: .05
Calabar Beans, bags.....	D	.15	: .18
Calamus Root, bleached cases.....	D	.40	: .42
Unbleached, bags.....	D	.10	: .12
Calendula Petals, imp. bales.....	D	...	: .30
Calisaya Bark, bales, powd.....	D	.24	: .25
Camphor, see Chemicals	D	...	: ...
Canary Seed, Morocco bags.....	D	...	: .06
South American, bags.....	D	.05½	: .05¾
Candellia Wax, bags.....	D	.24	: .27
Candella Alba Bark, bales.....	D	.52	: .55

Cannabis, true imp. bags.....	D	...	: 4.25
American (no assay) bales.....	D	.80	: .85
USP.....	D	1.70	: 1.85
Cantharides, Chinese cases.....	D	.98	: 1.03
Powd., boxes.....	D	1.18	: 1.20
Cantharides, Russian, cases.....	D	1.70	: 1.75
Powdered, boxes.....	D	1.85	: 1.90
Caraway Seed, African, bags.....	D	.22	: .23
Dutch, 110lb bags.....	D	.20	: .20½
Cardamom bleached cases.....	D	1.20	: 1.70
Decoriticated, cases.....	D	1.05	: 1.15
Green, grinding, bags.....	D	.92	: .94
Carnauba Wax, Flor, bags.....	D	.53	: .53
No. 1 N Country bags.....	D	.40	: .42
No. 2 N Country bags.....	D	.24	: .26
No. 3 Fatty Gray, bags.....	D	.19½	: .20
No. 3 Chalky, bags.....	D	.19½	: .20
Cascara Amarga, 150lb bales.....	D	.30	: .32
Cascara Sagrada, bales.....	D	.15	: .16
Cascarella Bark, quills bales.....	D	.30	: .35
Siftings, bbls.....	D	.20	: .25
Cassia Buds, 66lb cases.....	D	.12½	: .13
China, select, mats cases.....	D	.06½	: .07
Saigon, assort. bales.....	D	.25	: .27
Cassia Fistula, baskets.....	D	.09½	: .10
Castor Beans, bags.....	D	.03	: .03½
Castoreum, 1lb bot.....	D	4.00	: 4.50
Catechu Gum, bags.....	D	.09	: .10
Catnip Herb, bales.....	D	.12	: .15
Celery Seed, 220lb bags.....	D	.21	: .22
Cerecin Wax, white bags.....	D	.09	: .10
Yellow, 200lb bags.....	D	.08	: .09
CHANDMILE FLOWERS, Roman	D	...	: 2.00
bales.....	D	...	: .13
Hung. cases bales.....	D	.13	: .13½
Charcoal Willow, powd. bbls.....	D	.06	: .06½
Wood, powd. bbls.....	D	.04	: .05
Chestnut Bark, bags.....	D	.07	: .08
Herb, bales.....	D	.06	: .06½
Chicle Gum, bags.....	D	.75	: 1.00
Chiretta, bales.....	D	.10	: .12
Cinchona Bark, red quills bales.....	D	.55	: .60
Broken, bales.....	D	.25	: .26
Cinnamon, Ceylon, bales, bond.....	D	.22	: .22½
Civet, Abyssin horns.....	cs	2.75	: 3.75
Clover Tops, bags.....	D	.17	: .18
Cloves, Zanzibar, 135lb bales.....	D	.29½	: .30
Amboyas, bales.....	D	...	: ...
Penang, bales.....	D	...	: ...

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Cochineal, USP, boxes.....	.35	.37	Dogwood Bark, Jamaica bags.....	.11	.13	Grindelia Robusta Herb, bales.....	.07	.07½
Coca leaves, Huancoco bags.....	...	...	Flowers, bales.....	...	.15	Guaiac Gum, 80 lb cases.....	.32	.35
Truxillo, bags.....	...	.55	Doggrass Root, USP, cut bags.....	.12	.15	Guarana, tins, cases.....	.60	.70
Cohosh Root, Black bags.....	.10	.11	Dragons Blood, mass cases.....	.55	.60	GUM, see Arabic Gum, etc.		
Blue, bags.....	.18	.19	Needs, boxes.....	1.40	1.45	HELLEBORE ROOT,		
Colchicum Root, bags.....	.08	.09	ECHINACEA ROOT, bags.....	.32	.34	Black, bbls.....	.08	.10
Seed, bags.....	.10	.11	Elecampane Root, bags.....	.09	.10	Powdered.....	.13	.15
Colombo Root, whole bags.....	.03	.04	Elder Flowers, bags.....	.20	.21	White, Powd. 250 lb bbls.....	.17	.18
Colocynth, apples, cases, bales.....	.17	.22	Elemi Gum, 80 lb cases.....	.10	.11	HELONIAS ROOT, (unicaria false)		
Pulp, USP, bales.....	.36	.38	Elm, select, 5 lb bundles cases.....	.25	.26	bags.....	.68	.70
Coltsfoot Leaves, bags.....	.06	.07	Grinding, bags.....	.10	.12	Hemp Seed, Manchurian bags.....	.03½	.04
Comfrey Root, bags.....	.13	.14	Powdered, bbls.....	.16½	.17	Chilian, bags.....	...	...
Condurango Bark, bales.....	.14	.15	ERGOT, 150-200 lb bags.....	.51	.55	Henbane Leaves, bales, USP.....	.35	.40
Conium Seeds, bags.....	...	.16	Eucalyptus Leaves, bales.....	...	.05	No assay.....	.30	.35
Copaiba Balsam Para, see Balsams	...	...	Euphorbia Pilulifera Herb, bags.....	...	.20	Henna Leaves, bales.....	.13	.14
Copal Gum.....	.12	.15	Euphorbia Gum, cases.....	...	.32	Powdered.....	.17	.18
Coriander Seed, Bombay bags.....	.05	.07	Powdered, boxes.....	...	.40	Honey, Calif., 120 lb cases.....	.11½	.12
Morocco, bags.....	.10½	.10½	Fennel Seed, French, bags.....	.14	.17	Hops, N. Y. prime bales.....	.18	.20
Bleached, bags.....	.14½	.15½	German, bags.....	.19	.21	Pacific Coast prime bales.....	.18	.18
Corn Silk, bales.....	.05½	.06	Indian, bags.....	.12½	.13½	Horehound Herb, bales.....	.10	.11
Cotton Root Bark, bales.....	.30	.35	Flax Seed, whole 180 lb bbls.....	13.00	13.50	Horsetail Rush, bags.....	...	.15
Cramp Bark, so-called bales.....	...	.08	Ground, 180 lb bbls.....	.07½	.08	India Gum, see Karaya	...	...
True, bags.....	.44	.45	Foenugreek Seed, 200 lb bags.....	.07	.07½	INSECT FLOWERS, open whole		
Cranebill Root, bags.....	.10	.11	Fish Berries, 100-125 lb bags.....	.03	.03½	baled.....	...	...
CUBE BERRIES, XX bags.....	.82½	.85	Fringe Tree Bark, bags.....	.19	.20	Closed whole, bales.....	...	...
Powdered, boxes.....	...	.85	GALANGAL ROOT, bags.....	.06	.06½	Powdered, pure 200 lb bbls.....	.57	.60
Culvers Root, bags.....	.30	.32	Gambier Gum, bags.....	.09½	.10	Flowers and stems, 50 p. c.	...	...
Cumin Seed, Levant bags.....	...	...	Galbanum Gum, cans.....	1.20	1.35	200 lb bbls.....	.38	.40
Morocco, bags.....	.24	.27½	Gamboge Gum, 160 lb cases.....	1.08	1.10	Ipecac Root, Cartagena, bags.....	1.75	1.80
Cuttlefish Bone, Triests, straps.....	...	.16	Powdered, cases.....	1.12	1.15	Powdered, 200 lb bbls. boxes.....	1.90	2.00
Jewellers, large, straps.....	...	.55	Geisemum Root, bags.....	.11	.11½	Hio Whole, bags.....	1.75	1.85
Small, straps.....	...	.35	Gentian Root, bags.....	.08½	.09	Powdered, 200 lb bbls. boxes.....	1.85	2.00
French, straps.....	...	.17	Ginger, African, bags.....	.13½	.14	Istinglass, American, 130 lb cs.....	.65	.70
Powdered, boxes.....	...	.13	Jamaica, grinding, bags bbls.....	.32	.42	Russian (Beluga) box, ctns.....	5.50	7.50
Broken, boxes.....	.07	.07½	Japan, bags.....	.14	.14½	JABORANDI LEAVES, bales.....	.18	.19
Damar Gum, 136 lb cases.....	.32	.4	Cochin, ABC & lemon, bags.....	.15	.15½	Jalap Root, whole, 150 lb bags.....	.31	.35
Damiana Leaves, bales.....	...	.11	Ginseng Root, cultivated, bags.....	8.00	10.00	Powdered, USP, 250 lb bbls.....	.38	.40
Dandelion Root, Imp., bags.....	.16	.17	Northwestern Wild, bags.....	14.00	15.00	Japan Wax, 224 lb cases.....	.15½	.16
Deer Tongue Leaves, bales.....	.09	.10	Southern Wild, bags.....	10.00	12.00	Job's Tears, white bags.....	.08	.09
Digitals Leaves, bales.....	.07	.08	Golden Seal Root, bags.....	3.50	3.55	Juniper Berries, 125 lb bags.....	.03	.03½
Dill Seed, bags.....	.08½	.09	Powdered, boxes.....	3.75	3.85	KAMALA, boxes.....	1.90	2.00
			Grains of Paradise, bags.....	.12	.14	Karaya Gum, powdered, bbls.....	.15	.20
						Kava Kava Root, bags.....	.16	.17
						Kino Gum, black cases.....	.50	.55
						Kola Nuts, 150 lb bags.....	.05	.06
						Kousso Flowers, bags.....	...	4.00

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LADY SLIPPER ROOT, bags.....lb	.51	.55	Musk, pods Cabardine, time.....oz	16.00	17.00	Patchouli Leaves, bales.....lb	.22	.25
Larkspur Seed, bags.....lb	.31	.35	Tonquin.....oz	22.00	25.00	Pepper, black Sing. bags.....lb	.10 1/2	.10 3/4
Laurel Leaves, bales.....lb	.04 1/2	.05	Grain Cab.....oz	25.00	26.00	White, bags.....lb	.13 1/2	.14
Lavender Flowers, Ordinary.....lb	.20	.25	Tonquin.....oz	35.00	38.00	Peppers, red Mombasa bags.....lb	.24	.26
Selected.....lb	.30	.34	Synthetic, see Chemicals			Cherries, bags.....lb	.15	.15 1/2
Leeches, tubs.....Per 100		9.75	Musk Root, Russian bags.....lb			Bombay, bags.....lb	.15	.15 1/2
Lemon Peel, bags.....lb	.09	.10	Mustard Seed, Bari brown bags.....lb	.08 1/2	.09	Japan, bags.....lb	.28	.30
Licorice Root, Russian whole.....lb	.07 1/2	.08	Bombay, brown.....lb	.08 1/2	.09	Pennyroyal Herb, bales.....lb	.08	.13
Spanish, natural bales.....lb	.09	.09 1/2	California, brown.....lb	.08 1/2	.09	Peppermint Leaves, imp. bales.....lb		.35
Powdered, bbls.....lb	.10	.11	Yellow.....lb		.09	Domestic leaf.....lb	.27	.29
Selected, 2 & 5 lb bundles.....lb	.17	.20	Chinese, yellow.....lb	.04	.04 1/2	Peru Balsam, see Balsams		
Cuttings, 125 lb bags.....lb	.07 1/2	.08	English, yellow.....lb	.08 1/2	.09	Pichi Leaves, bags.....lb	.23	.25
Life Everlasting Herbs, bales.....lb	.05	.06	Dutch, yellow.....lb	.08	.08 1/2	Pimento, select bags.....lb	.04 1/2	.04 3/4
Lime Juice, clarified bbls.....gal	.50	.60	Danish, yellow.....lb	.08 1/2	.09	Pink Root, true bags.....lb		1.35
Linden Flowers, with leaves, bales lb	.16	.18	Myrrh Gum, select 200 lb cs.....lb	.37	.40	Pitch, Burgundy, see Burgundy Pitch		
Without Leaves, bales.....lb	.32	.35	Sorts, cases.....lb	.36	.38	Pleurisy Root, bags.....lb		.23
Liverwort Leaves, bales.....lb	.20	.22	NUTGALLS, Chinese bags.....lb			Plantain Leaves, bales.....lb		.15
Lobelia Herb, bales.....lb	.19	.25	Aleppy, bags.....lb	.14	.15	Poke Berries, bags.....lb		.15
Lobelia Seed, bags.....lb	.55	.60	Nutmegs, 110s cases.....lb	.22	.22 1/2	Poke Root, bags.....lb		.07 1/2
Lovage Root, Imported, bags.....lb		.25	75s, 80s cases.....lb	.26	.28	Pomegranate Bark, of root bags lb		.30
Lupulin, boxes.....lb	1.40	1.50	Nux Vomica Buttons, bags.....lb	.06	.06 1/2	Of Fruit, bags.....lb		.30
Domestic.....lb	1.30	1.40	Powdered, 200 lb bbls.....lb	.10	.10 1/2	Of tree.....lb		.30
Lycopodium, 88 lb cs.....lb	.43	.45	OAK BARK, red bags.....lb	.05	.06	Poppy Flowers, red bags.....lb	.25	.27
MACE, Siam, No. 1 cases.....lb	.44	.45	White, bags.....lb	.06	.07	Poppy Seed, Dutch, bags.....lb	.09 1/2	.10 1/2
Banda, No. 1 cases.....lb	.50	.52	Olibanum Gum, sift 280 lb cases lb	.09 1/2	.10	German, bags.....lb		.10 1/2
Batavia, cases.....lb	.38	.39	Tears, 280 lb cases.....lb	.13	.14	Turkish, bags.....lb	.06	.08
Malva Flowers, blue bales.....lb	.27	.30	No. 1, all white, 280 lb cases lb	.21	.22	Blue Indian, bags.....lb	.08	.08 1/2
Black, bales.....lb	.65	.75	Opium, gum USP cases.....lb		8.00	White Indian, bags.....lb	.07	.07 1/2
Mauna, large flake cases.....lb	.58	.59	Granular, cans.....lb		9.00	Prickly Ash Bark Southern, bags lb	.14	.14 1/2
Small flake, cases.....lb	.28	.30	Powdered, USP cans.....lb		9.00	Northern, bags.....lb		.16
Sorts, cases.....lb	.27	.30	Orange Flowers, cases.....lb		1.00	Prickly Ash Berries, bags.....lb	.11	.13
Mandrake Root, bags.....lb	.18	.19	Orange Peel, bitter bags.....lb	.07 1/2	.07 3/4	Prince's Pine, bales.....lb	.14	.15
Mastic Gum, 120 lb cases.....lb	.65	.70	Sweet, bags.....lb	.07 1/2	.08	Pulsatilla Herb, bags.....lb	.25	.27
Mexican Bark, bags.....lb	.11	.12	Orris Root Florentine bold bags lb	.07	.08	Pumkin Seed, bags.....lb	.14	.16
Matco Leaves, bales.....lb	.20	.22	Verona, bags.....lb	.05	.06	QUASSIA CHIPS, bags.....lb	.06 1/2	.07 1/2
Marjoram Leaves, German bales lb	.17 1/2	.18	Powdered, 200 lb bbls.....lb	.07 1/2	.08	Queen of the Meadow Herb, bags lb		.66
French, bales.....lb	.13 1/2	.14 1/2	Fingers, cases.....lb	.58	.60	Quince Seed, bags.....lb	.95	1.20
Millet Seed, dom. yellow bags lb	.03 1/2	.05	Ozokerite Wax brown hard bags lb	.22	.24	RAPE SEED, South Amer. bags lb	.06 1/2	.07
Montan, Wax, crude bags.....lb	.04	.04 1/2	Green, hard bags.....lb	.25	.26	Dutch, bags.....lb	.07	.08 1/2
Bleached.....lb			Refined, yellow bags.....lb			Japanese, small, bags.....lb	.05 1/2	.06
Moss, Iceland bales.....lb	.08	.09	PAPRIKA, bags.....lb	.17	.22	Raspberries, dried boxes.....lb	.56	.60
Irish, bleached bales.....lb	.09	.10	Hungarian.....lb	.27	.37	Red Saunders.....lb	.17	.19
Mullein Flowers, fins.....lb		2.00	Pareira Brava Root, bags.....lb	.19	.20	Rhatany Root, bags.....lb		.10
			Parsley Seed, bags.....lb	.08	.08 1/2	RHUBARB, E. D. cases.....lb	.43	.45
						Powdered, 200 lb bbls.....lb	.48	.50
						Rosemary Leaves, bales.....lb	.04 1/2	.05



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Rosemary Flowers, cases bales...D	.28	: .30	Snake Root, Canada natural bags...D	.34	: .36	Tragacanth Gum, No. 1, ribbon, 200 lb. ca.D	1.50	: 1.55
Rose Petals, pale .....D	.22	: .25	Stidipped, bags .....D	...	: .55	No. 2 to No. 6, cases.....D	1.00	: 1.50
Red .....D	...	: .60	SOAP BARK, whole, 150-200 lb. bales .....D	.07 1/4	: .08	Powdered, 50 lb boxes.....D	1.00	: 1.50
Rue Herb, bales.....D	.30	: .35	Cut, 125-175 lb bags.....D	.09	: .09 1/4	Turkish, cases .....D	.75	: .90
SABADILLA SEED, bags.....D	.12	: .12 1/4	Crushed, 200 lb bbls.....D	.09 1/4	: .10	Turmeric Root, Madras bags.....D	.10 1/4	: .11
Powder, bbls.....D	.16	: .17	Powdered, 200 lb bbls.....D	.12	: .14	Aleppy, bags .....D	.08 1/4	: .09
Saffron Flowers, Amer. bales.....D	1.08	: 1.15	Spearmint Leaves, American bales...D	.23	: .24	China, bags .....D	.07	: .07 1/4
Valencia, 1 lb cans.....D	38.00	: 40.00	Spermaceti, blocks cakes cases...D	.36	: .37	Turpentine, Venice, true 80 lb ca...D	.20	: .22
Sage, Dalmatian bales.....D	.05	: .06 1/4	Spikenard Root, bags.....D	.15	: .16	Artificial, 80 lb cases.....D	.14	: .15
Greek, bales .....D	.04 1/4	: .05 1/4	Spruce Gum, boxes.....D	1.00	: 1.50	Spirits, see Naval Stores		
Spanish, bales .....D	.03	: .03 1/4	Squaw Vine, bales.....D	...	: .17	UNICORN ROOT, false, see Helonias		
Sandalwood, chips bags.....D	...	: .30	Stavesacre Seed, bags.....D	.28	: .29	True, see Aletris		
Ground, bags .....D	...	: .35	Stone Root, bags.....D	.09	: .10	Uva Ursi Leaves, bales.....D	.05 1/4	: .06 1/4
Sandarac Gum, 300 lb bbls.....D	.20	: .23	Storax, liquid artif.....D	.70	: .75	VALERIAN ROOT, Belgian bags...D	.10 1/4	: .11
Sarsaparilla, Honduras, bales.....D	.61	: .65	Gen. USP .....D	.90	: 1.00	Vanilla Beans Mex. whole cases..D	8.50	: 11.00
Mexican, bales .....D	.32	: .35	St. Ignatius Beans, bags.....D	.22	: .23	Cuts, cases .....D	6.00	: 8.50
Sassafras Bark, ordinary bales...D	.12	: .14	St. John's Bread, bags.....D	.04	: .06	Bourbon, cases .....D	4.50	: 4.75
Select, bales .....D	.25	: .28	Stramonium Leaves, bales.....D	.07	: .07 1/4	South American, cases.....D	6.00	: 6.50
Savory Leaves, bales.....D	.08 1/4	: .09 1/4	Stramonium Seed, bags.....D	.12	: .13	Tahiti, yellow label cases.....D	...	: ...
Saw Palmetto Berries, bags.....D	.09	: .10	Strophanthus Seed, Hirsutus.....D	...	: ...	Green Label, cases.....D	...	: ...
Scammony Resin, boxes.....D	1.40	: 1.60	Kombe, bags .....D	.30	: .35	Violet Flowers, bags .....D	.65	: .70
Scammony Root, bags.....D	.08 1/4	: .07	Sunflower Seed, domestic bags...D	.07	: .07 1/4	WAHOO BARK, of root bags.....D	.85	: .90
Senega Root, bags .....D	.60	: .62	South American, bags.....D	.08	: .07 1/4	Of Tree, bags .....D	.43	: .45
SENNA, Alex. 150 lb cases.....D	.30	: .31	TAGALDER BARK, bags.....D	...	: .05	White Pine Bark, rossed, bags...D	.08 1/4	: .07 1/4
Half Leaf, 350 lb bales.....D	.18	: .19	Tamarinds, bbls. ....D	...	: .06 1/4	White Poplar Bark, bags.....D	.04	: .05
Siftings, 400 lb bales.....D	.11	: .12	Kegs .....per bag	...	: 3.50	Wild Cherry Bark, thin green	...	: ...
Powdered, 200 lb bbls.....D	.12	: .13	Tanzy Herb, bales .....D	.18	: .20	Rossed, bales .....D	.13	: .14
Tinnetelly, Job, 350 lb bales...D	.11	: .12	Tar, Barbadoes, 50 gal. bbls....gal	1.60	: 1.75	Thick Rossed, bales.....D	.08	: .09
Grinding, 350 lb bales.....D	.05	: .08	Thus Gum, 280 lb bbls.....D	...	: .05 1/4	Thin Natural, bales.....D	.10	: .11
Powdered, 200 lb bbls.....D	.08	: .08 1/4	Thyme, Spanish bales.....D	.08	: .08 1/4	Thick Natural, bales.....D	.06	: .08
Pods, 350 lb bales.....D	.06	: .06 1/4	French, bales .....D	.09 1/4	: .10	Willow, bark bags.....D	...	: .06
Serpentaria Root, bags.....D	.80	: .85	Tilia, See Linden			White, bags .....D	...	: .15
Shellac, T.N., bags.....D	.51	: .52	Tolu Balsam, see Balsams			Witch Hazel Bark, bags.....D	...	: .07
Superfine Orange, bags.....D	.57	: .58	Tonga Bark, bags .....D	.30	: .31	Witch Hazel Leaves, bales.....D	...	: .09
D. C., bags .....D	...	: .80	Tonka Beans, Angostura, cases...D	2.00	: 2.10	Worm Seed, American bags.....D	.09	: .10
V. S. O., cases.....D	...	: .80	Para, cases .....D	.80	: .85	Levant bags .....D	3.50	: 3.75
Pwd. reg., 350 lb bbls.....D	...	: .06	Surinam, cases .....D	.85	: .95	Wormwood Herb, imported bales..D	...	: .10
Regular Bleached, 350 lb bbls..D	...	: .70				Yacca Gum, red.....D	.04	: .04 1/4
Bone, Dry, 350 lb bbls.....D	...	: .63				Ground .....D	.05 1/4	: .06 1/4
Simaruba Bark, bales.....D	.09	: .10				YELLOW DOCK ROOT, bags.....D	.12	: .14
Sideritis Herb, cut bags.....D	...	: .18				Yellow Parilla Root, bags.....D	.16	: .17
Skullcap Leaves, bales.....D	...	: .38				Yerba Santa, bagsD	.10	: .11
Sloe Berries, bagsD	.03	: .04				Zedoary Root, bags.....D	.08	: .10

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Essential Oils

Almond Bitter USP 5 lb. bots....	D	3.50	: 3.75	Copaiba, USP, 50 lb. tins.....	D	.35	: .40	Pimento, 25 lb. tins.....	D	1.85	: 1.95
Bitter of FA 5 lb. bots.....	D	3.50	: 3.75	Coriander, USP, 1 lb. bot.....	D	...	: 18.00	Pinus Sylvestris, 25 lb. tins....	D	...	: 1.75
Artificial (See Benzaldehyde—Chemicals)				Croton, USP 25 lb. tins.....	D	1.00	: 1.10	Pumilio, USP 25 lb. tins.....	D	...	: 2.75
Sweet, 56 lb. cans.....	D	.34	: .36	Cubeb, USP, 5 lb. bot.....	D	6.00	: 6.25	Rose, Fr., 8, 16 & 32 oz pkgs..	cs	...	: 9.00
Peach Kernel, 55 lb. tins.....	D	.24	: .25	Cumin, 1 lb. bot.....	D	15.00	: 20.00	Bulg., 8, 16 & 32 oz pkgs..	cs	5.50	: 6.00
Apricot, see Peach Kernel				Dill, 1 lb. bot.....	D	4.25	: 5.00	Artificial, 1 lb. bot.....	D	2.00	: 3.00
Amber, crude 25 lb. tins.....	D	.70	: .75	Erigeron, 20 lb. tins.....	D	.90	: 1.00	Rosemary, USP, 27 1/2 lb. tins...	D	.45	: .48
Rectified, 25 lb. tins.....	D	.90	: 1.00	EUCALYPTUS, Austl. USP				1000 lb. drums.....	D	...	: 42 1/2
Angelica Root, 1 lb. bot.....	D	38.00	: 39.00	56 lb. cs.....	D	.45	: .47 1/2	Tech., 27 1/2 lb. tins.....	D	.40	: .45
Seed, 1 lb. bot.....	D	36.00	: 38.00	500 lb. drums.....	D	...	: 43 1/2	Rue, 1 lb. bot.....	D	...	: 4.25
ANISE, Tech., 66 lb. case.....	D	.45	: .47 1/2	Fennel USP, 25 lb. tins.....	D	1.00	: 1.10	Sandalwood, E. Ind. USP, 76 lb. cases	D	7.65	: 7.80
USP 50 lb. tins.....	D	.52 1/2	: .55	Geranium, Algerian, 25 lb. tins..	D	8.00	: 8.50	W. Indian, (Amyris) 25 lb. tins..	D	3.75	: 4.00
Bay, 25 lb. tins.....	D	2.50	: 2.60	Bourbon, 25 lb. tins.....	D	6.50	: 6.75	Sassafras, USP, 50 lb. cans.....	D	1.00	: 1.10
Bergamot, 25 lb. coppers.....	D	2.55	: 2.65	Turkish, 25 lb. tins.....	D	4.75	: 5.00	Artificial, 60 lb. cans, 1000 lb. drs.	D	...	: .45
Birch Tar, rect. 5 lb. bot.....	D	1.10	: 1.15	Ginger, 1 lb. bot.....	D	5.75	: 6.00	Savin, 5 lb. tins.....	D	3.25	: 3.50
Crude, 50 lb. tins.....	D	.60	: .65	Gingergrass, 25 lb. tins.....	D	2.75	: 3.00	Spearmint, USP, 60 lb. cases.....	D	2.50	: 2.60
Bois de Rose, 25 lb. tins.....	D	2.50	: 2.65	Hemlock, 50 lb. cans.....	D	1.25	: 1.30	Spruce, 50 lb. tins.....	D	1.25	: 1.30
Cade, USP, 25 lb. tins.....	D	.35	: .40	Juniper Berries, USP, 25 lb. tins..	D	1.15	: 1.25	Tansy Amer., 20 lb. tins.....	D	7.00	: 7.25
USP, 5 lb. bot.....	D	.45	: .50	Wood, 50 lb. tins.....	D	.60	: .70	Tar, 50 gal. bbls.....	gal	.25	: .28
Calajput, native, 50 lb. tins.....	D	.80	: .85	Lavender, USP, 28 lb. tins.....	D	2.40	: 2.60	Refined, USP 25 lb. tins.....	D	...	: .
Calamus, 5 lb. bot.....	D	4.25	: 4.75	Spike, Spanish, 50 lb. cans.....	D	.60	: .65	Thyme, red, USP 25 lb. tins.....	D	1.00	: 1.10
Camphor, heavy, 1000 lb. drums..	D	.11 1/2	: .12	LEMON, Ital. USP, 25 lb. tins..	D	.75	: .90	White, USP 25 lb. tins.....	D	1.15	: 1.25
Japanese, white, 72 lb. cases..	D	.13 1/2	: .15	American, USP, 25 lb. tins.....	D	.75	: .80	Crude, 110 lb. drums.....	D	.85	: .90
White, 1000 lb. drums.....	D	.13	: .15	Lemongrass, native, 50 lb. cans..	D	.80	: .85	Vetiver, Bourbon, 1 lb. bot.....	D	5.50	: 6.00
Cananga, Native 25 lb. tins.....	D	2.25	: 2.50	Limes, express 25 lb. tins.....	D	1.70	: 1.80	Java, 1 lb. bot.....	D	22.00	: 24.00
Rectified, 25 lb. tins.....	D	2.50	: 2.75	Distilled, 25 lb. tins.....	D	.85	: .90	Wine, heavy 1 lb. bot.....	D	...	: 2.75
Caraway, USP.....	D	7.00	: 7.25	Linaloe, Mex. 50 lb. cases.....	D	2.15	: 2.35	WINTERGREEN,			
Cardamom, USP, 1 lb. bot.....	D	20.00	: 22.00	Mace, distilled, 50 lb. tins.....	D	...	: .90	Sweet beh., 25 lb. tins.....	D	2.00	: 3.00
Carrot, 5 lb. bot.....	D	12.00	: 13.00	Mirbane, ref., see Ar. Chemicals				Gaultheria, true 25 lb. tins....	D	4.00	: 7.00
CASSIA, 75-80 p.c. 66 lb. cases..	D	...	: .	Mustard, USP, 1 lb. bot.....	D	...	: 14.00	Synthetic, USP, 50 lb. cases....	D	...	: .55
Redistilled, USP, 50 lb. cans....	D	3.00	: 3.10	Artif., USP, 5 lb. bot.....	D	2.10	: 2.25	Wormseed Bait, USP, 25 lb. tins..	D	7.20	: 7.25
Cedar Leaf, 50 lb. tins.....	D	1.10	: 1.15	Neroli, Bigarade, 1/2 and 1 lb. bot.	D	75.00	: 100.00	Wormwood, dom., 25 lb. tins....	D	6.50	: 6.75
Cedar Wood, light 1000 lb. drums.	D	.26	: .28	Petale, 1 lb. bot.....	D	90.00	: 115.00	Ylang Ylang, Bourbon 10 lb. tins	D	7.00	: 9.00
Celery, 1 lb. bot.....	D	8.50	: 9.00	Artificial, 1 lb. bot.....	D	10.00	: 25.00	No. 1.....	D	7.00	: 9.00
Cinnamon, Ceylon 1 lb. bot.....	D	11.00	: 12.50	Nutmeg, USP, 25 lb. tins.....	D	...	: .90	No. 2.....	D	5.00	: 6.00
Leaf, 5 lb. bot.....	D	...	: 2.00	Orange, bitter, 25 lb. tins.....	D	2.60	: 2.70	Manila, 1 lb. bot.....	D	30.00	: 40.00
CITRONELLA, Ceylon, 1000 lb. drs.	D	.70	: .71	Sweet, W. Ind. 25 lb. tins.....	D	2.75	: 3.00	Artificial, 1 lb. bot.....	D	10.00	: 12.00
50 lb. tins.....	D	.72	: .74	Italian, 25 lb. cop.....	D	3.90	: 4.50				
Java, 400 lb. drums.....	D	...	: .85	American, 25 lb. tins.....	D	3.30	: 3.40				
50 lb. tins.....	D	...	: .87 1/2	Origanum, 50 lb. cans.....	D	.30	: .35	Aspidium, USP, 1 lb. bot.....	D	2.75	: 3.00
Cloves, USP, 50 lb. cans.....	D	2.20	: 2.35	Parsley, 1 lb. bot.....	D	3.50	: 4.00	Capiscum, USP, 5 lb. bot.....	D	2.50	: 2.75
6 lb. bot.....	D	2.25	: 2.45	Patchouli, 5 lb. bot.....	D	7.75	: 8.00	Cubeb, USP, 1 lb. bot.....	D	4.75	: 5.00
				Pennyroyal, dom 25 lb. tins.....	D	1.95	: 2.25	Ginger, 5 lb. bot.....	D	3.00	: 3.10
				Imported, 25 lb. tins.....	D	1.75	: 1.90	Malefern, See Aspidium			
				PEPPERMINT, nat. 60 lb. cases....	D	2.65	: 2.75	Orri, 1 lb. bot.....	D	...	: 18.00
				Redist., USP, 60 lb. cases.....	D	2.90	: 3.00	Pepper, black, USP, 1 lb. bot....	D	3.50	: 4.00
				Petit Grain, S. Am. 25 lb. tins..	D	1.75	: 1.85	Vanilla, 1 lb. bot.....	D	9.50	: 10.00
				French, 1 lb. bot.....	D	6.50	: 7.00				

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NATURAL DERIVATIVES		
Anethol, 2 lb bot.....	1.60	: 2.00
Borneol, 1 lb bot.....	...	: 3.50
Citronella, 1 lb bot.....	2.00	: 2.25
CITRAL, 25 lb cans.....	2.75	: 3.00
EUCALYPTOL, USP, 25 lb cans..	.75	: .80
Eugenol, USP, 25 lb cans.....	2.85	: 3.25
Geraniol, Domestic, 50 lb cans..	3.00	: 3.50
Imported, 5 lb bot.....	4.50	: 5.00
Isa-Eugenol, 1 lb bot.....	4.50	: 5.00
Imported.....	6.50	: 7.00
Linalool, 5 lb bot.....	7.00	: 7.25
MENTHOL, 60 lb cans.....	9.75	: 10.00
Less cases, 5 lb cans.....	10.00	: 10.25
Rhodinol, 1 lb bot.....	15.00	: 20.00
SAFROL, 60 lb cans.....	.55	: .57
Thymol, USP, 10 lb cans.....	3.25	: 3.50

SYNTHETIC AROMATICS		
Acetaldehyde, 50% aol pure, 5 lb bot..	1.75	: 2.00
Acetophenone CP, 1 lb bot.....	4.00	: 4.25
Amyl Acetate, pure, 5 gal cans..	7.00	: 8.00
Amyl Butyrate, 1 lb bot.....	2.00	: 2.10
Amyl Formate, 1 lb bot.....	3.00	: 3.25
AMYL SALICYLATE, 100 lb chys..	1.45	: 1.60
Anisic Aldehyde, 1 lb bot.....	3.75	: 4.50
BENZALDEHYDE, USP, 40 lb chys..	1.50	: 1.60
FFC, 40 lb chys.....	1.75	: 1.85
Benzole Ether, See Ethyl Benzate		
Benzyl Acetate, 100 lb chys.....	1.40	: 1.50
Benzyl Alcohol, 5 lb bot.....	1.60	: 1.70
BENZYL BENZOATE, 5 lb bot.....	1.60	: 1.75
Medicinal FFC.....	1.75	: 2.00
Benzyl Formate, 1 lb bot.....	3.00	: 3.25
Bromstyrol, 25 lb bags.....	4.00	: 4.25
Butyric Ether, See Ethyl Butyrate		
Cinnamic Acid, 5 lb cans.....	2.00	: 3.25
Cinnamic Alcohol, liquid 1 lb bot..	12.00	: 16.00
Crystallizable.....	16.00	: 18.00

Cinnamic Aldehyde, 1 lb bot....	3.20	: 3.50
CITRONELLOL, 1 lb bot.....	8.00	: 14.00
COUMARIN, 25 lb cans.....	4.50	: 4.75
DIETHYL PHTHALATE, 25 lb cans..	.55	: .60
Diphenyl oxide, 25 lb tins.....	.85	: .90
Ethyl Acetate, pure, 5 lb bot....	.45	: .50
Ethyl Benzate, 5 lb bot.....	1.85	: 2.00
Ethyl Butyrate, 5 lb bot.....	2.00	: 2.25
Ethyl Cinnamate, 1 lb bot.....	3.75	: 4.00
Ethyl Formate, 5 lb bot.....	2.00	: 2.10
Ethyl Valerate, 5 lb bot.....	4.50	: 4.75
Formic Ether, See Ethyl Formate		
Geranyl Acetate, 1 lb bot.....	4.25	: 4.75
Hellotropin, dom., 10 lb bot....	2.00	: 2.25
Imported.....	2.50	: 2.75
Indol, CP, 1 oz. bot.....	8.50	: 9.00
Ionone, 1 lb bot.....	5.00	: 9.00
Alpha.....	10.00	: 12.00
Beta.....	9.00	: 11.00
Methyl.....	12.50	: 15.00
Linalyl Acetate, 1 lb bot.....	7.00	: 10.00
Linalyl Benzate, 1 lb bot.....	13.00	: 14.00
METHYL ANTHRANILATE dom.,		
1 lb bot.....	3.50	: 4.00
Imported.....	4.50	: 5.00
Methyl Cinnamate, 1 lb bot.....	3.75	: 4.00
Methyl Paracresol, 1 lb bot....	8.00	: 9.00
METHYL SALICYLATE, USP 500 lb		
drums.....	...	: .55
50 lb cases.....	...	: .57
Second Hands.....	.50	: .52
Mirane, rect. 1000 lb drums....	.12 1/2	: .14
Musk Ambrette, 1 lb cans.....	14.50	: 16.50
Musk Ketone, 1 lb cans.....	13.00	: 14.00
Musk Xylene, 5 lb cans.....	2.90	: 3.15
Nerolin, 1 lb cans.....	1.65	: 2.00
Oenanthal Ether, 5 lb bot.....	1.25	: 1.50
Phenylacetaldehyde, Dom.,		
1 lb bot.....	9.00	: 11.00
Imported.....	12.00	: 14.00
Phenylacetic Acid, 1 lb bot....	3.00	: 3.25
PHENYLETHYLALCOHOL dom.,		
1 lb bot.....	8.00	: 9.00
Imported.....	8.50	: 10.00

Phenylpropylalcohol, 1 lb bot....	15.00	: 16.00
TERPINEOL, CP, 1000 lb drums..	.50	: .55
Cans 50 lb.....	.55	: .57
Imported, 25 lb cans.....	.95	: 1.20
Terpinyl Acetate, 25 lb cans....	1.65	: 1.85
VANILLIN, USP, 400 oz. cans..oz	.41	: .41 1/2
Cans, 16 oz., 80 oz.....oz	.41 1/2	: .42 1/2
Valerianic Ether, See Ethyl Valerate		
Yara Yara, 1 lb cans.....	1.75	: 2.00

PERFUMERS' SUNDRIES		
Almond Meal, 25 lb cans.....	.28	: .30
Ambergris, black, bxs.....	...	: 8.00
Ambergris, gray, bxs.....	...	: 28.00
Balsam Copaiba, Para, 80 lb cases..	.23	: .24
South American, 80 lb cases..	.28	: .29
Balsam Peru, 60 lb cans.....	1.75	: 1.80
Balsam Tolu, 90 lb cases.....	1.35	: 1.50
Benzoin Gum, Siam, bxs.....	1.15	: 1.20
Castoreum, 1 lb bot.....	4.00	: 4.50
Chalk, precip. light, 175 lb bbls..	.04 1/2	: .05
Cherry Laurel Water, 5 gal cans..gal	1.15	: 1.25
Civet Abyssin, horns.....	2.75	: 3.75
Labdanum, 5 lb bot.....	...	: 8.00
Lanolin hydrous, 350 lb bbls....	.21	: .22
Anhydrous, 350 lb bbls.....	.23	: .24
Musk pods, Cabardine, tins.....	16.00	: 17.00
Tonquin, tins.....	22.00	: 25.00
Grains, Cabardine, tins.....	25.00	: 28.00
Tonquin, tins.....	35.00	: 38.00
Synthetic, See Aromatic Chemicals		
Orris Rt. Flor., powd. bbls.....	.09	: .11
Verona, bbls.....	.08	: .09
Petrolatum, snow white, 350 lb bbls..	...	: 12 1/2
Light Amber, 350 lb bbls.....	.04	: .04 1/2
Rice Starch, 140 lb bags.....	.09	: .10
Rose Water, 5 gal chys.....gal	.80	: 1.10
Sandalwood chips, powd., bags....	.30	: .35
Saponin, 5 lb tins.....	1.25	: 1.50
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Talc French, 220 lb bags.....ton	32.00	: 45.00
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AGAR AGAR—20 bls., T. M. Duche & Sons, Kobe; 10 bls., Lee Higginson & Co., Kobe; 20 bls., Order, Kobe

ALBUMEN—50 cs., F. A. Cundill & Co., Shanghai; 56 cs., T. M. Duche & Sons, Shanghai; 40 cs., Amer. Exch. Nat. Bk., Shanghai; 78 cs., Bradford & Co., Hankow; 33 cs., Frazar & Co., Tientsin; Blood, 50 cks., Order, Hamburg; Hen, 3 cs., Order, Shanghai

ALCOHOL—80 bbls., C. Esteve, Arcibo; 100 bbls., C. Esteve, Havana

AMMONIUM—Carbonate, 10 cks., Order, Hamburg; Nitrate, 213 cks., Kuttroff, Pickhardt & Co., Rotterdam

AMYL ACETATE—10 cks., M. De Mattia Co., Rotterdam

ANTIMONY—Regulus, 250 cs., Mfrs. Trust Co., Shanghai; 940 cs., Wah Chang Trdg. Corp., Shanghai; 50 cs., Order, Shanghai; 450 cs., Nat. Bank of Commerce, Changsha; 500 cs., Mitsubishi Shoji Kaisha, Shanghai; 250 cs., Brown Bros. & Co., Hankow; 250 cs., Irving Bk., Hankow; 250 cs., Irving Bk., Shanghai; 1,800 cs., Wah Chang Trdg. Corp., Shanghai; White Oxide, 250 bgs., Wah Chang Trdg. Corp., Shanghai

ARGOLS—101 cks., Tartar Chem. Wks., Naples; 251 bgs., C. Pfizer & Co., Rotterdam

ARSENIC—89 cs., Frazar & Co., Kobe; 60 cs., Wah Chang Trdg. Corp., Shanghai; 200 cs., Takata & Co., Kobe; 339 cs., Order, Kobe; 200 cs., Mitsui & Co., Kobe; 167 cs., G. F. Taylor Co., Kobe; 200 cs., Order, Kobe

BALSAM—6 cs., Order, London

BARK—6 bgs., S. B. Penick & Co., Hamburg; 50 bls., Cohn & Co., Nassau; 5 bls., W. T. Shay, Nassau; 7 bls., Nickells Rowland Co., London; 12,143 bls., Order, Durban; 2,387 bls., Order, Durban; Cinchona, 11 bls., S. B. Penick & Co., Rotterdam; Siftings, 5 bgs., Cohn & Co., Nassau; Wattle, 3,461 bgs., E. J. Haley, Durban; 615 bgs., Standard Bk. So. Africa, Durban; 2,670 bgs., Guaranty Trust Co., Durban; 1,065 bgs., Hammond Carpenter Co., Durban

BARYTES—200 bgs., N. Y. Trust Co., Bremerhaven

BLEACHING POWDER—75 cs., H. Kohnstamm & Co., Liverpool

CALCIUM CHLORIDE—164 drs., E. Suter & Co., Hamburg

CAMPOR—150 cs., C. Pfizer & Co., Shanghai; 100 cs., Chase Nat. Bk., Kobe

CASEIN—200 bgs., Equitable Trust Co., Bordeaux; 835 bgs., Internl. Acceptance Bk., Buenos Aires; 417 bgs., Irving Bk. Columbia Trust Co., Buenos Aires; 1,251 bgs., Order, Buenos Aires; 200 bgs., Jungmann & Co., Hamburg; 134 bgs., Order, Hamburg; 1,000 bgs., Kalbfleisch Co., Buenos Aires

COAL TAR DISTILLATE—35 drs., Order, Liverpool

COLORS—13 bbls., 38 cs., 10 kgs., Nat. Aniline & Chem. Co., Kobe; 24 cks., Irving Bk., Havre; 15 pkgs., Ciba Co., Havre; 12 pkgs., Carbic Color & Chem. Co., Havre; 70 cs., La Manna Azema & Farman, Havre; 29 cks., H. A. Metz & Co., Hamburg; 7 cks., Kuttroff Pickhardt & Co., Hamburg; 10 cks., E. C. Foster, Hamburg; 4 cks., Franklin Import & Export Co., Hamburg; 4 bxs., B. F. Drakenfeld & Co., Liverpool; 1 ck., Hensel Bruckmann & Lorchner, Bremerhaven; 1 cse., Ore & Chem. Corp., Hamburg; 1 cse., Guaranty Trust Co., Hamburg; 22 cks., Grasselli Chem. Co., Hamburg; 13 cks., Order, Hamburg; 1 cse., Schneider & Co., Antwerp; 15 bbls., Order, Genoa; 4 bbls., Amer. Exch. Nat. Bk., Genoa; 10 bbls., Irving Bk., Genoa; 8 bbls., Amer. Exch. Nat. Bk., Genoa; 1 ck., Kuttroff Pickhardt Co., Hamburg; 16 cks., Fezandie & Sperrle, Liverpool; Alizarine, 4 cks., A. Klipstein & Co., Liverpool; 3 cs., Guaranty Trust Co., Hamburg; Broaze, 40 cs., Baer Bros., Bremerhaven; 16 cs., L. Uhfelder Co., Hamburg; 15 cs., Order, Hamburg; Coal Tar, 5 cks., H. A. Metz & Co., Rotterdam; 20 drs., Order, Liverpool; Earth, 12 bbls., A. Hurst & Co., Hamburg

CUTTLEFISH BONES—216 cs., Order, Bordeaux

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EUPHORBIA PILULIFERA—49 bls., Order, Bombay

EXTRACT—Archil Liquor, 5 cks., A. De Ronde Co., Liverpool; Logwood, 138 bbls., Logwood Mfg. Corp., Cape Haitien; Mangrove Bark, 500 bgs., Order, Singapore; Quebracho, 10,300 bgs., Tannin Corp., Buenos Aires; 20,046 bgs., Tannin Corp., Buenos Aires

FERRO SILICON—1 cse., T. D. Downing & Co., Antwerp

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GLAUBER SALT—50 bbls., A. J. Marcus, Hamburg

GLYCERIN—60 cks., Order, Bordeaux; 34 cks., Order, Marseilles; 70 drs., Marx & Rawolle, London

GUM—30 bgs., G. Wills & Sons, Bordeaux; 30 cks., Order, Bordeaux; 10 bgs., Order, Bombay; 5 cs., Gordon Woodruff & Co., Singapore; 223 bgs., W. Wrigley, Jr. & Co., Puerto Colombia; 490 bgs., Guaranty Trust Co., Yokohama; 61 bgs., L. C. Gillespie & Co., Yokohama; **Animl**, 4 cs., Baring Bros., London; **Arabic**, 108 bgs., Order, Bombay; 600 bgs., T. M. Duche & Sons, Port Sudan; 563 bgs., Irving Bk., Port Sudan; 700 bgs., Anderson Hillier & Co., Port Sudan; 150 bgs., Caracanda Bros., Port Sudan; 500 bgs., Order, Port Sudan; **Copal**, 50 bskts., 105 bgs., Kidder Peabody & Co., Singapore; 105 bgs., Order, Singapore; 150 cs., France Campbell & Darling, Singapore; 210 bgs., France Campbell & Darling, Yokohama; 195 bgs., Chem. Nat. Bk., Antwerp; 610 bgs., W. Schall & Co., Antwerp; 150 bgs., Chem. Nat. Bk., Antwerp; 315 bgs., Innes & Co., Antwerp; 600 bgs., Equit Trust Co., Antwerp; **Damar**, 54 cs., Chem. Nat. Bk., Singapore; 150 cs., L. C. Gillespie & Sons, Yokohama; **Ghaty**, 207 cs., Order, Bombay; **Karaya**, 490 bgs., Order, Bombay; **Olibanum**, 60 cs., Order, Bombay; **Shiraz**, 100 sks., Order, Marseilles; **Tragacanth**, 100 bgs., Order, Bombay

HERBS—7 bls., S. B. Penick & Co., Hamburg; 21 bls., Anderson & Hillier Co., Hamburg; 9 sks., Order, Hamburg; **Med**, 2 bls., J. Victori & Co., Barcelona

INSECT POWDER—2 cs., M. Stevens, Manchester

IRON OXIDE—20 cks., 10 kegs, J. H. Rhodes & Co., Liverpool; 15 cks., Order, Liverpool; 3 cks., E. M. & F. Waldo, Antwerp

IRON POWDER—20 cs., Roessler & Hasslach Chem. Co., Hamburg

KAINIT—Quantity, Potash Imptg. Corp., Bremerhaven

LEAVES—Henna, 25 bls., Order, Hamburg; Patchouli, 155 bls., Brown Bros. & Co., Penang; Sage, 40 pkgs., Order, Bordeaux; Senna, 66 bls., Nat. Bk. of Egypt, Port Sudan

LIME—Hydrate, 200 bgs., Order, Bristol

MAGNESITE—137 bbls., Speiden Whitfield Co., Rotterdam; Calcined, 107 cks., H. J. Baker & Bro., Rotterdam; 12 cks., Frazar & Co., Glasgow

MAGNESIUM—Chloride, 55 bbls., Speiden Whitfield & Co., Hamburg; Fluosilicate, 36 bbls., Order, Hamburg

MENTHOL—10 cs., Stanley Jordan & Co., London; 5 cs., Kidder Peabody & Co., London

MYROBALANS—13,416 pgs., Order, Bombay

NAPHTHALENE—1,220 bgs., Lunham & Moore, Rotterdam; 207 bgs., Order, Manchester

NICKEL—Sulfate, 42 cks., Order, Bristol

NUX VOMICA—200 bgs., Order, Bombay

OILS—Castor, 63 cs., Alps Drug Co., Genoa; Cod, 200 bbls., Nat. Oil Produce Co., Kobe; Haarlem, 2 cs., Order, Rotterdam; Linseed, 800 tons, Mech. & Metals Nat. Bk., London; 200 bbls., Order, Hull; 799 tons, 14 cwt, 7 lbs., Amer. Linseed Co., London; 50 bbls., Order, Rotterdam; Nut, 760 tons, Spencer Kellogg & Co., Hankow; 21 cks., L. C. Gillespie & Co., Hankow; Olive, 300 cs., G. W. Sheldon & Co., Genoa; 100 cs., B. Dorman, Inc., Genoa; 150 cs., G. W. Sheldon & Co., Genoa; 100 cs., S. Romano, Genoa; 255 cs., Amer. Exp. Co., Genoa; 200 cs., Chem. Nat. Bk., Genoa; 425 cs., P. Pastene & Co., Genoa; 100 cs., F. Altonare, Naples; 3,205 cs., Order, Genoa; 145 cs., N. Celentano & Co., Naples; 100 bbls., W. Schall & Co., Algiers; 105 bbls., Order, Barcelona; Sulfur Olive, 200 bbls., Banca Comm. Ital., Naples; Palm, 500 cks., Niger Co., Opobo; 722 cks., Niger Co., Port Harcourt; 170 cks., Thornett & Fehr Co., Port Harcourt; 610 cks., Niger Co., Koko; 113 cks., J. Holt & Co., Lagos; 1,287 cks., Africa & Eastern Trdg. Co., Lagos; 205 cks., J. Holt & Co., Idro; 300 cks., Africa & Eastern Trdg. Co., Idro; Rape, 100 bbls., Balfour, Williamson Co.,

Hull; 275 bbls., Order, Hull; 1 drum, W. Van Doorn, Rotterdam; Sesame, 88 bbls., J. C. Francesconi & Co., Rotterdam; Whale, 2 bbls., Order, Christiania; Wood, 100 drs., Mechanics & Metals Nat. Bk., Hongkong; 1 pge., Balfour Williamson & Co., Hongkong; 121 cks., Order, Shanghai; 298 cks., Jardine Matheson Co., Hankow; 150 cks., Order, Hankow; 600 bbls., Mitsubishi Shoji Kaisha, Hankow; 900 bbls., Mitsui & Co., Hankow; 600 cks., Brown Bros. & Co., Hankow

OILS, ESSENTIAL—12 cs., Berner & Co., Havre; 2 cks., M. Waldstein, Bordeaux; 76 cs., E. La Montagnes Sons, Bordeaux; 5 bbls., 3 cs., L. Quattracchi, Messina; 1 ck., Gen'l Transport Co., Naples; 6 bbls., L. Sonneborn & Sons, San Juan; 3 cs., Orbis Prod. Tdg. Co., Southampton; 6 cs., Polaks Frutal Wks., Rotterdam; 15 cs., Goldman Sachs & Co., Hamburg; Bay, 10 cs., Santoni & Co., Arroyo; Camphor, 90 drs., Order, Shanghai; Cassia, 10 drs., 60 cs., Amer. Exch. Nat. Bk., Hongkong; 10 drs., Standard Bk. of So. Africa, Hongkong; Coriander, 1 cse., Morana, Inc., Rotterdam; Fusel, 14 drs., Nat. City Bk., Dairen; 2 drs., N. Y. Trust Co., Rotterdam; 12 drs., Order, Antwerp; Geranium, 14 cks., Order, Marseilles; Juniper Berry, 5 cs., Magnus Mabey & Reynard, Rotterdam; Linaloe, 7 drs., Order, Vera Cruz; Orange, 20 cs., Paik Benziger & Co., Kingston; Rose, 4 pots, Order, Bombay; Seed, 50 cks., Order, Marseilles; Ylang Ylang, 10 cs., C. L. Huisking, Manila

OSSEINE—4 bgs., Rex & Reynolds, Bordeaux

POTASSIUM SALTS—Chlorate, 350 bls., Asia Bkg. Corp., Marseilles; Muriate, 6,509 bgs., Potash Imptg. Corp., Bremerhaven; 5,000 bgs., Potash Importing Corp., Hamburg; Nitrate, 240 bbls., E. I. du Pont de Nemours Co., Hamburg; 225 cks., Kuttroff Pickhardt & Co., Hamburg; Perchlorate, 400 bbls., Hummel & Robinson, Hamburg; Prussiate, 16 kegs, H. J. Baker & Bro., Liverpool; Sulfocyanide, 6 cks., J. W. Hampton & Co., Liverpool

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SEED—26 bgs., J. Bush Co., Havre; 200 bgs., W. J. Busch & Co., Bordeaux; 18 bgs., J. J. Toledano & Co., Bordeaux; Alfalfa, 2,020 bgs., Order, Buenos Aires; Canary, 100 bgs., Order, Bordeaux; Cumin, 205 sks., Order, Marseilles; Flaxseed, 40,120 bgs., Order,

Buenos Aires; 2,629,070 kilos, Kidder Peabody & Co., Rosario; 525,814 kilos, Bk. of the Manhattan Co., Rosario; 15,046 bgs., 853,135 kilos, Amer. Exch. Nat. Bk., Rosario; 23,002 bgs., 348,737 kilos, Goldman Sachs & Co., Rosario; 2 cs., Order, Bombay; 59,106 bgs., Order, Rosario; 17,649 bgs., Order, Buenos Aires; Mustard, 1,790 bgs., Intern. Accept. Bk., Dairen
SENNA—Siftings, 26 bls., Nat. Bk. of Egypt, Port Sudan
SILICIUM—492 sks., Janarier, Algiers
SODIUM SALTS—Acetate, 103 bbls., Roessler & Hasslacher Chem. Co., Antwerp; Cyanide, 162 cs., Asia Bkg. Corp., Marseilles; Nitrite, 100 cks., E. Suter & Co., Hamburg; Sulfate, 250 cks., E. M. Sergeant Co., Hamburg; Sulfide, 40 bbls., Trumphy Paesy & Benstoff, Antwerp
TALC—400 bgs., Moore & Munger, Bordeaux; 500 bgs., Hammill Gillespie & Co., Bordeaux;

900 bgs., Whittaker Clark & Daniels, Bordeaux; 1,500 bgs., L. A. Salomon & Bros., Bordeaux; 300 bgs., C. B. Chrystal & Bros., Bordeaux
TARTAR—195 pgs., Tartar Chem. Wks., Marseilles; 190 pgs., C. Pfizer & Co., Marseilles
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VANILLA BEANS—8 cs., H. Triest & Co., Vera Cruz; 39 cs., Gomez & Sloan, Vera Cruz; Cuts, 1 cse., Gomez & Sloan, Vera Cruz; 12 cs., Thurston & Braidich, Vera Cruz
WAX—Bees, 6 seroons, J. A. Thomen, Monte Cristi; 105 bgs., London & Braz. Bk., Rio de Janeiro; 6 sks., P. H. Guy, Rio de Janeiro; 50 bgs., Order, Rio de Janeiro; 10 bbls., Ponda Extract Co., Rotterdam; 17 bgs., Order, Havana; Carnauba, 23 bgs., Lazard Freres Co., Ceara
ZINC—Oxide, 10 cks., Order, London; 135 bbls., Philipp Bros., Antwerp

Exports of aniline dyes from Switzerland in 1922 aggregated 3,872,800 kilograms, valued at 55,257,000 francs, which is only a slight change compared with 1921, according to a report compiled by Vice-Consul William H. Mathes at Zurich. Exports of artificial indigo made heavy gains, totaling 3,460,800 kilograms, with a value of 13,158,000 francs, compared with 1,182,000 kilograms, valued at 9,497,000 francs, in the previous year. The principal purchaser of artificial indigo was China, which took large quantities, valued at 9,948,000 francs, for her cheap cotton fabrics. The second best customer was Japan, which took 165,000 kilograms, valued at 2,260,000 francs.

Egyptian Salt & Soda Co., Alexandria, Egypt, exported 1,428 metric tons of caustic soda, valued at \$143,503, in 1922, to Greece, Palestine and Syria. Caustic soda exports from Egypt have steadily increased from 278 metric tons in 1920, to 1,224 tons in 1921, and 1,428 tons in 1922.

A recent act of the Philippine Legislature (approved March 16, 1923, and retroactive to January 1, 1923) requires the registration of all brands of commercial fertilizers, and the filing of a statement of contents and source of the imports. The registration fee is 50 pesos (\$25). Heavy penalties are provided for violations of act. A copy of this act is on file in the Division of Foreign Tariffs, Department of Commerce, and detailed information will be furnished to interested American firms on application.

Philadelphia Commercial Museum has received a foreign trade inquiry from a firm in Basle, Switzerland, which is anxious to get in touch with American factories, manufacturing and exporting bichromate of soda, bichromate of potash, intermediary products for the manufacture of aniline colors, including alphanaphthol, aniline oil, aniline salt, betanaphthol, nitrobenzol, paradichlor-benzol, pure toluol, caustic soda, 76-77 per cent and carbonate of potash 96-98 per cent.

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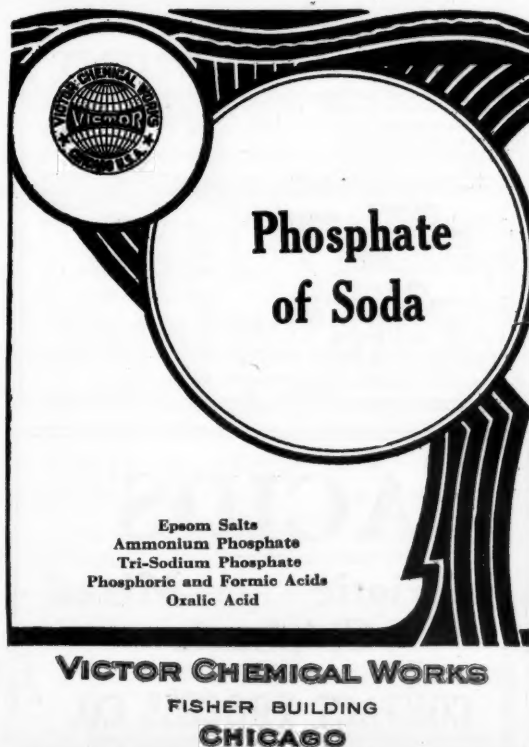
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 10—Other Vacuum Dryers.

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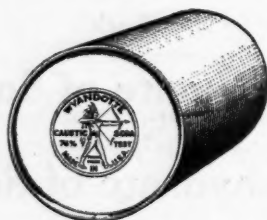
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Contact Process Co.	The Miner-Edgar Co.
Chas. Cooper & Co.	Monsanto Chemical Works
Diamond Alkali Co.	Clarence Morgan & Co.
The Dow Chemical Co.	Henry W. Peabody & Co.
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Grasselli Chemical Co.	Semet Solvay Co.
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R. W. Greeff & Co.	Thorkildsen-Mather Co.
Harshaw, Fuller & Goodwin Co.	Victor Chemical Works
Hans Hinrichs Chem. Corp.	The Warner Chemical Co.
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